



# Flour Milling Products

## January 1976

Issued March 1976

SERIES: M20A(76)-1

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 6.

TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1973 to 1976

(Seasonally adjusted)			
Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1976			
January.....	1,062	372	47,350
1975			
December.....	930	370	45,892
November.....	1,038	363	46,049
October.....	991	404	50,329
September.....	1,004	391	48,778
August.....	1,024	382	47,017
July.....	1,014	393	48,862
June.....	964	367	45,435
May.....	987	380	46,451
April.....	989	402	49,219
March.....	946	350	42,944
February.....	878	335	41,445
January.....	876	346	43,231
1974			
December.....	933	361	44,168
November.....	1,018	387	47,851
October.....	937	388	47,950
September.....	967	360	44,847
August.....	912	352	43,784
July.....	896	345	43,521
June.....	960	334	42,628
May.....	875	340	42,894
April.....	888	347	43,902
March.....	985	366	46,182
February.....	1,054	366	46,939
January.....	990	374	48,108
1973			
December.....	1,043	358	46,765

Note: Data include from 2- to 5- percent estimation for nonresponse. The seasonal factors have been updated through 1973 and include factors for 1974 as shown in the May 1974 publication.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233.

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TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1973 TO 1976

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1976								
January.....	1,073	21,452	380,720	48,112	(NA)	991	108.2	74.3
1975								
December.....	933	20,532	368,047	46,000	3,907	991	94.1	74.4
November.....	1,059	20,113	359,798	45,241	(NA)	995	106.9	74.0
October.....	1,049	24,129	432,009	54,067	(NA)	995	105.4	74.4
September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
August.....	1,034	21,705	398,052	49,017	(NA)	988	104.7	73.8
July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0
March.....	<sup>r</sup> 907	19,054	349,068	42,833	4,755	959	<sup>r</sup> 94.6	74.1
February.....	883	17,653	320,553	39,746	(NA)	967	91.2	74.0
January.....	885	19,466	354,360	43,927	(NA)	967	91.5	73.9
1974								
December.....	936	19,658	358,722	44,272	4,499	967	96.8	74.0
November.....	1,043	20,853	384,077	47,012	(NA)	995	104.8	73.9
October.....	992	22,817	415,213	51,512	(NA)	995	100.0	74.0
September.....	1,041	20,837	376,616	47,039	3,885	995	104.7	73.8
August.....	921	20,269	366,762	45,647	(NA)	1,008	91.4	74.0
July.....	851	18,735	336,533	42,246	(NA)	1,008	84.6	73.9
June.....	931	18,610	328,782	41,634	3,748	1,008	92.4	74.5
May.....	860	18,925	332,118	42,217	(NA)	996	86.4	74.7
April.....	840	18,486	325,595	41,365	(NA)	996	84.4	74.5
March.....	944	20,760	364,253	46,063	5,297	996	99.3	75.1
February.....	1,060	20,141	350,161	45,015	(NA)	962	104.7	74.6
January.....	1,000	21,993	383,037	48,882	(NA)	962	103.9	75.0
1973								
December.....	1,049	20,972	355,889	46,912	5,505	962	109.0	74.5

Note: Data included estimates for small mills.

(NA) Not available. <sup>r</sup>Revised by 5 percent or more.<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production, as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

PRODUCT CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	JANUARY 1976 QUANTITY	DECEMBER 1975 QUANTITY	JANUARY 1975 QUANTITY
	DURUM WHEAT (INCLUDED IN TABLE 1 DATA):				
0011173	DURUM WHEAT GROUND. . . . .	M CWT	3,047	2,521	3,219
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	DO	1,297	1,159	1,320
2041155	BLENDED SEMOLINA DURUM FLOUR. . . . .	M BU	(D)	(D)	(D)
	RYE:				
0011951	RYE GROUND FOR FLOUR. . . . .	M CWT	390	368	437
2041611	RYE FLOUR PRODUCTION. . . . .	M BU	181	177	207
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	2,052	1,887	2,473
2041611	RYE FLOUR STOCKS (1). . . . .	M CWT	15	22	(NA)
	24 HOUR CAPACITY (1). . . . .	DO	9	9	9

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

(NA) Not available.

<sup>1</sup>These data exclude all flour blended by macaroni and spaghetti manufactures ect. as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

TABLE 3.--WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

(1,000 CWT.)

GEOGRAPHIC AREA	WHEATGROUND FOR FLOUR		WHEAT FLOUR PRODUCTION		
	JANUARY 1976 QUANTITY PRODUCED	DECEMBER 1975 QUANTITY PRODUCED	JANUARY 1976 QUANTITY PRODUCED	DECEMBER 1975 QUANTITY PRODUCED	JANUARY 1975 QUANTITY PRODUCED
UNITED STATES, TOTAL. . . . .	48,112	46,000	21,452	20,532	19,466
MIDDLE ATLANTIC. . . . .	6,158	5,916	2,720	2,603	2,396
NEW YORK. . . . .	5,043	4,818	2,247	2,144	2,092
NORTH CENTRAL. . . . .	26,876	25,514	11,943	11,324	11,366
OHIO. . . . .	3,015	2,777	1,315	1,217	1,293
INDIANA. . . . .	1,361	1,227	571	521	508
ILLINOIS. . . . .	2,895	2,652	1,279	1,172	1,039
MICHIGAN. . . . .	747	699	326	310	261
MINNESOTA. . . . .	5,929	5,661	2,660	2,522	2,590
IOWA. . . . .	(D)	(D)	(D)	(D)	453
MISSOURI. . . . .	4,215	4,103	1,906	1,849	1,718
NEBRASKA. . . . .	1,426	1,520	603	648	510
KANSAS. . . . .	5,489	5,250	2,492	2,367	2,510
SOUTH ATLANTIC. . . . .	2,576	2,690	1,160	1,209	922
EAST SOUTH CENTRAL. . . . .	2,498	2,467	1,149	1,133	975
TENNESSEE. . . . .	2,006	1,986	879	871	776
WEST SOUTH CENTRAL. . . . .	2,649	2,690	1,175	1,195	1,373
OKLAHOMA. . . . .	1,165	1,095	(D)	(D)	500
TEXAS. . . . .	1,256	1,319	541	568	813
MOUNTAIN. . . . .	3,138	2,800	1,389	1,238	755
MONTANA. . . . .	597	730	269	329	243
UTAH. . . . .	(D)	(D)	(D)	(D)	(D)
PACIFIC. . . . .	4,217	3,923	1,916	1,830	1,679
WASHINGTON. . . . .	1,378	1,272	620	572	430
OREGON. . . . .	890	756	403	344	442
CALIFORNIA AND HAWAII. . . . .	1,949	1,895	893	914	807

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	Dec.	Nov.	1 month through Dec. 1975
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	76	212	2,033
Guatemala.....	3	18	54
Columbia.....	-	8	144
Ecuador.....	-	-	50
Brazil.....	-	-	43
Israel.....	-	-	78
India.....	-	-	88
Pakistan.....	-	-	-
Sri Lanka (Ceylon).....	25	-	86
South Vietnam.....	-	-	4
Philippine Republic.....	9	48	334
Morocco.....	31	50	442
Other.....	8	88	710
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	422	588	9,116
Nicaragua.....	1	1	14
Jamaica.....	9	18	310
Brazil.....	2	-	55
Iceland.....	1	8	48
Jordon.....	-	-	7
Saudi Arabia.....	300	432	3,897
Sri Lanka (Ceylon).....	-	-	2,001
Egypt.....	-	-	905
Philippine Republic.....	-	-	37
Korean Republic.....	-	-	20
Morocco.....	-	-	32
Other.....	109	129	1,790

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

-Represents zero.



## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

The current month's figures include estimates for mills whose reports were not received in time for tabulation. Such estimates are based on month-to-month trends shown by reporting firms and are generally limited to a maximum of 10 percent for any one item. Statistics for previous months may be revised, due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which were revised significantly are indicated by footnotes.

The data in this report are not adjusted for number of working days.

## SEASONAL ADJUSTMENT

This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month varia-

tions which are due to factors that are not associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

## RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report includes more historical data and more detail by States than are shown in the monthly reports.

## EXPLANATION OF TERMS

**Units of Quantity**—Grain ground is measured in bushels of 60 lbs. for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100 lbs.

**Capacity**—Based on replies to the question "What is the maximum quantity of flour that can be produced in your mill in one day if operated for 24 hours?" The capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

**Grain**—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

**Millfeed**—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

**Wheat flour**—Includes whole wheat flour, farina, industrial flour, and durum flour.

**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.

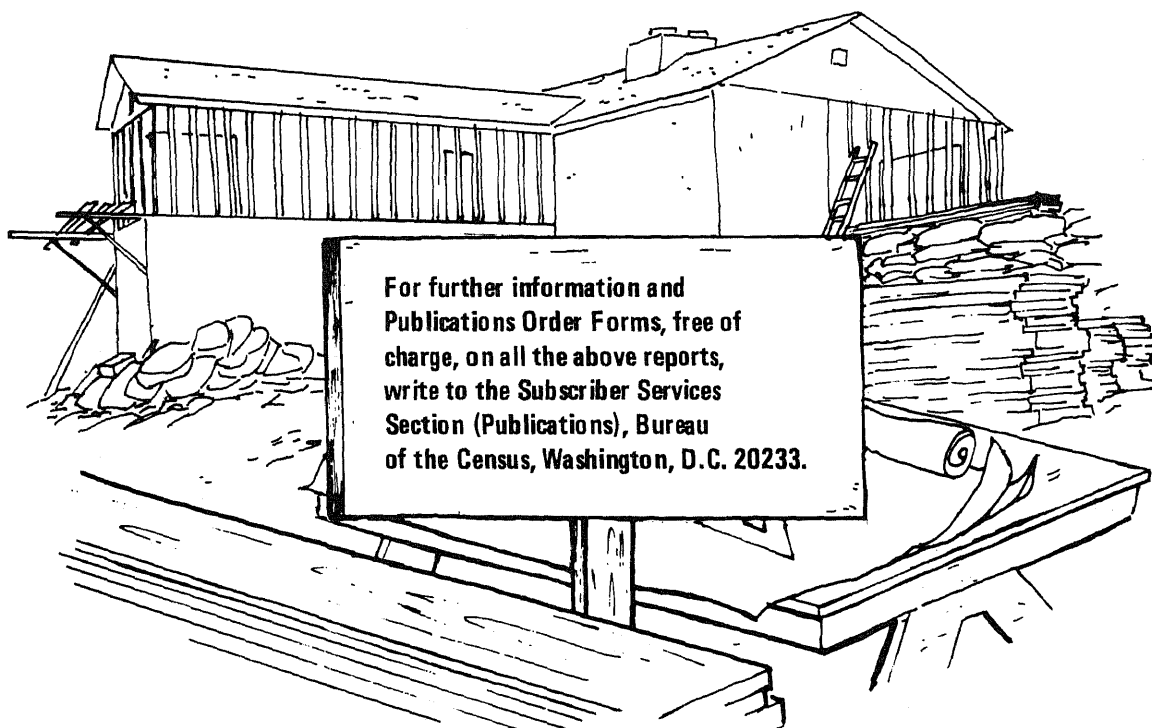
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- C22 - Housing Completions
- C25 - Sales of New One-Family Houses
- C27 - Price Index of New One-Family Houses Sold
- C30 - Value of New Construction Put in Place
- C40 - Housing Authorized by Building Permits and Public Contracts
- C41 - Authorized Construction—Washington, D.C. Area
- C45 - Permits Issued for Demolition of Residential Structures in Selected Cities
- C50 - Expenditures on Residential Additions, Alterations, Maintenance and Repairs, and Replacements

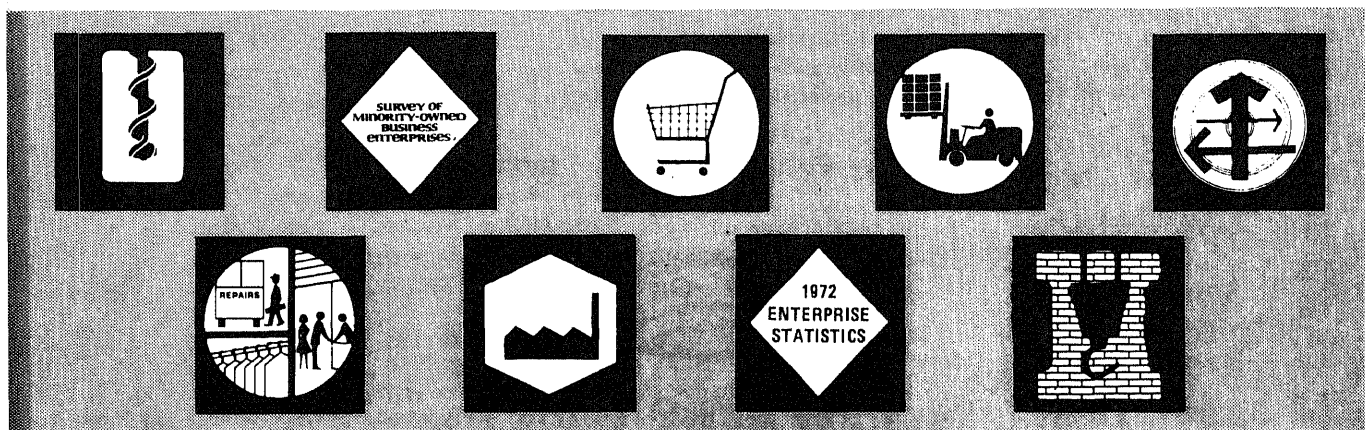


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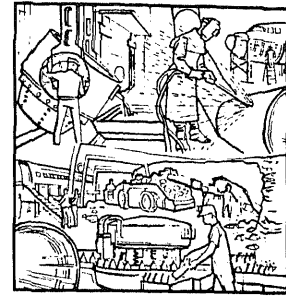
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## Flour Milling Products

February 1976

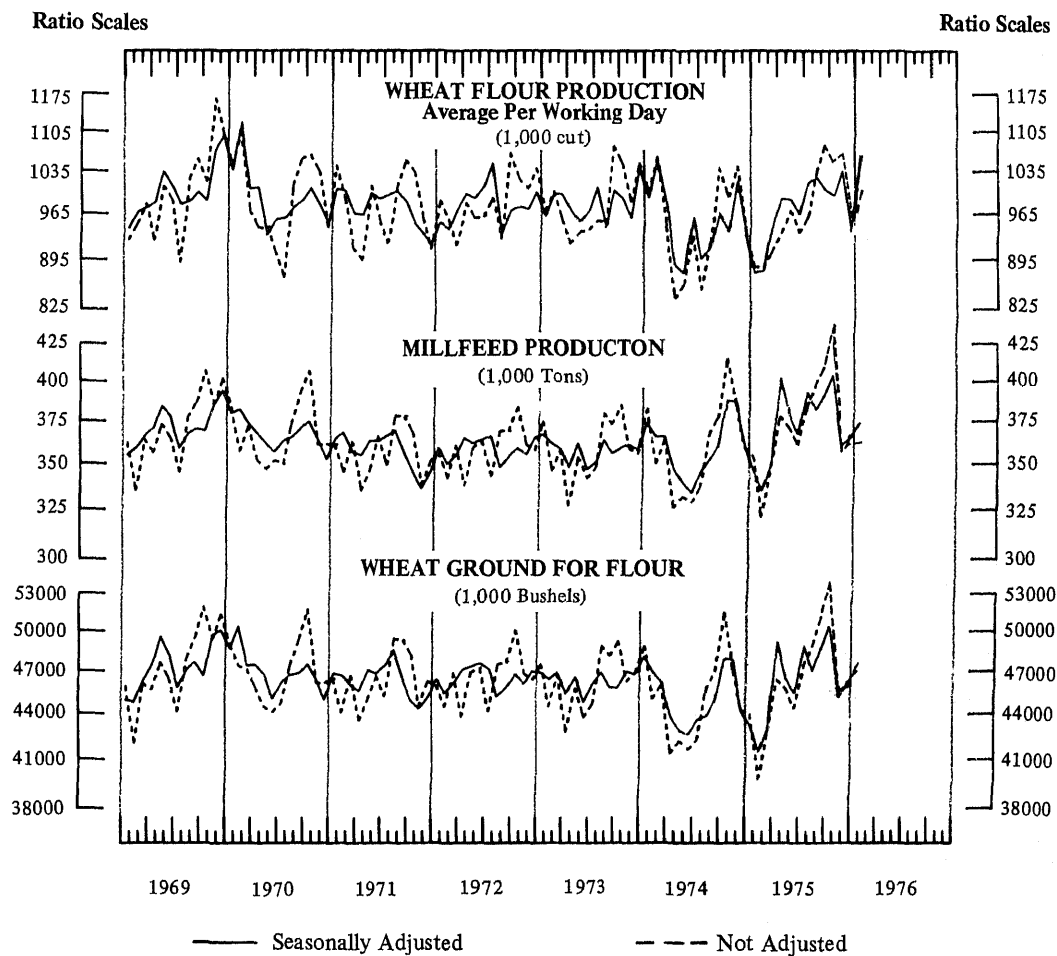


Issued April 1976

SERIES: M20A(76)-2

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## Wheat Flour Milling, 1969—1976



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TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Seasonally adjusted)

Month and year	Wheat flour production average per working day <sup>1</sup>  (1,000 cwt)	Millfeed production  (1,000 tons)	Wheat ground for flour  (1,000 bushels)
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February.....	988	367	46,532
January.....	<sup>r</sup> 992	365	46,457
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November.....	1,038	363	46,049
October.....	991	404	50,329
September.....	1,004	391	48,778
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TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

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2041155	BLENDED SEMOLINA DURUM FLOUR. . . . .	DO	(D)	(D)	(D)
	RYE:				
0011951	RYE GROUND FOR FLOUR. . . . .	M BU	308	390	448
2041611	RYE FLOUR PRODUCTION. . . . .	M CWT	142	181	206
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	1,645	2,040	2,499
2041611	RYE FLOUR STOCKS (1). . . . .	M CWT	(NA)	(NA)	(NA)
	24 HOUR CAPACITY (1). . . . .	DO	9	9	9

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding.

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(NA) Not available.

<sup>1</sup>Collected quarterly. These data exclude all flour blended by macaroni and spaghetti manufactures ect. as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

(1,000 CWT.)

GEOGRAPHIC AREA	WHEAT GROUND FOR FLOUR		WHEAT FLOUR PRODUCTION		
	FEBRUARY 1976 QUANTITY PRODUCED	JANUARY 1976 QUANTITY PRODUCED	FEBRUARY 1976 QUANTITY PRODUCED	JANUARY 1976 QUANTITY PRODUCED	FEBRUARY 1975 QUANTITY PRODUCED
UNITED STATES, TOTAL. . . . .	44,625	47,204	19,876	21,034	17,653
MIDDLE ATLANTIC. . . . .	5,559	<sup>r</sup> 5,741	2,462	<sup>r</sup> 2,530	2,215
NEW YORK. . . . .	4,660	<sup>r</sup> 4,725	2,072	<sup>r</sup> 2,097	1,883
NORTH CENTRAL. . . . .	25,312	26,367	11,204	<sup>r</sup> 11,692	10,370
OHIO. . . . .	2,797	3,015	1,224	1,315	1,145
INDIANA. . . . .	1,120	1,361	478	571	483
ILLINOIS. . . . .	2,726	<sup>r</sup> 2,689	1,203	<sup>r</sup> 1,187	1,004
MICHIGAN. . . . .	704	742	310	325	286
MINNESOTA. . . . .	5,880	5,835	2,656	2,620	2,354
IOWA. . . . .	(D)	(D)	(D)	(D)	451
MISSOURI. . . . .	3,875	4,184	1,744	1,874	1,666
NEBRASKA. . . . .	1,356	1,426	573	603	510
KANSAS. . . . .	5,173	5,316	2,279	2,406	2,075
SOUTH ATLANTIC. . . . .	2,474	2,527	1,119	1,153	805
EAST SOUTH CENTRAL. . . . .	2,484	2,498	1,137	1,149	912
TENNESSEE. . . . .	2,014	2,006	880	879	728
WEST SOUTH CENTRAL. . . . .	2,652	2,749	1,182	1,222	1,022
OKLAHOMA. . . . .	1,127	1,223	(D)	(D)	459
TEXAS. . . . .	1,331	1,298	579	560	491
MOUNTAIN. . . . .	2,471	3,125	1,093	1,382	702
MONTANA. . . . .	542	597	245	269	271
UTAH. . . . .	(D)	(D)	(D)	(D)	(D)
PACIFIC. . . . .	3,673	4,197	1,679	1,906	1,627
WASHINGTON. . . . .	1,161	1,378	523	620	472
OREGON. . . . .	682	890	310	403	386
CALIFORNIA AND HAWAII. . . . .	1,830	1,929	846	883	769

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

<sup>1</sup>Revised by 5 percent or more.



TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	Jan.	Dec.	1 month through Jan. 1976
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	76	50	76
Guatemala.....	3	-	3
Columbia.....	-	-	-
Ecuador.....	-	6	-
Brazil.....	-	-	-
Israel.....	-	-	-
India.....	-	-	-
Pakistan.....	-	-	-
Sri Lanka (Ceylon).....	25	-	25
South Vietnam.....	-	-	-
Philippine Republic.....	9	-	9
Morocco.....	31	39	31
Other.....	8	5	8
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	422	547	422
Nicaragua.....	1	5	1
Jamaica.....	9	40	9
Brazil.....	2	-	2
Iceland.....	5	15	5
Jordon.....	-	-	-
Saudi Arabia.....	318	409	318
Sri Lanka (Ceylon).....	-	-	-
Egypt.....	-	1	-
Philippine Republic.....	-	1	-
Korean Republic.....	19	-	19
Morocco.....	-	-	-
Other.....	68	76	68

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

- Represents zero.

## DESCRIPTION OF SURVEY

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The data in this report are not adjusted for number of working days.

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This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month varia-

tions which are due to factors that are not associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

## RELATED REPORTS

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## EXPLANATION OF TERMS

**Units of Quantity**—Grain ground is measured in bushels of 60 lbs. for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100 lbs.

**Capacity**—Based on replies to the question "What is the maximum quantity of flour that can be produced in your mill in one day if operated for 24 hours?" The capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

**Grain**—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

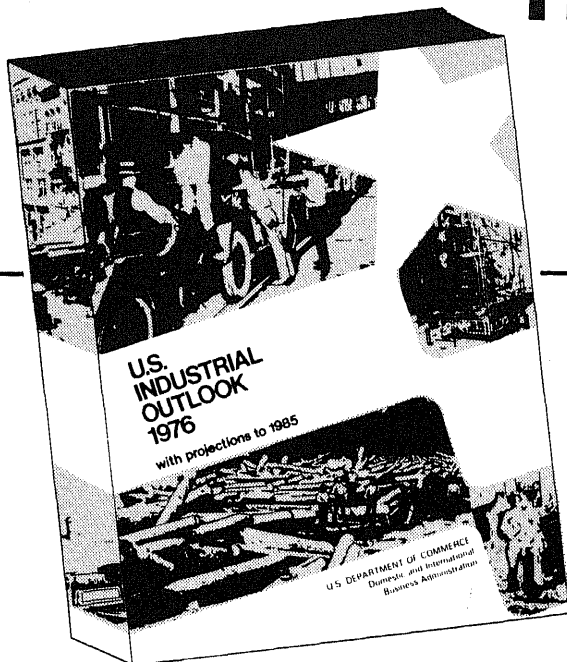
**Millfeed**—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

**Wheat flour**—Includes whole wheat flour, farina, industrial flour, and durum flour.

**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.

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## Flour Milling Products

March 1976

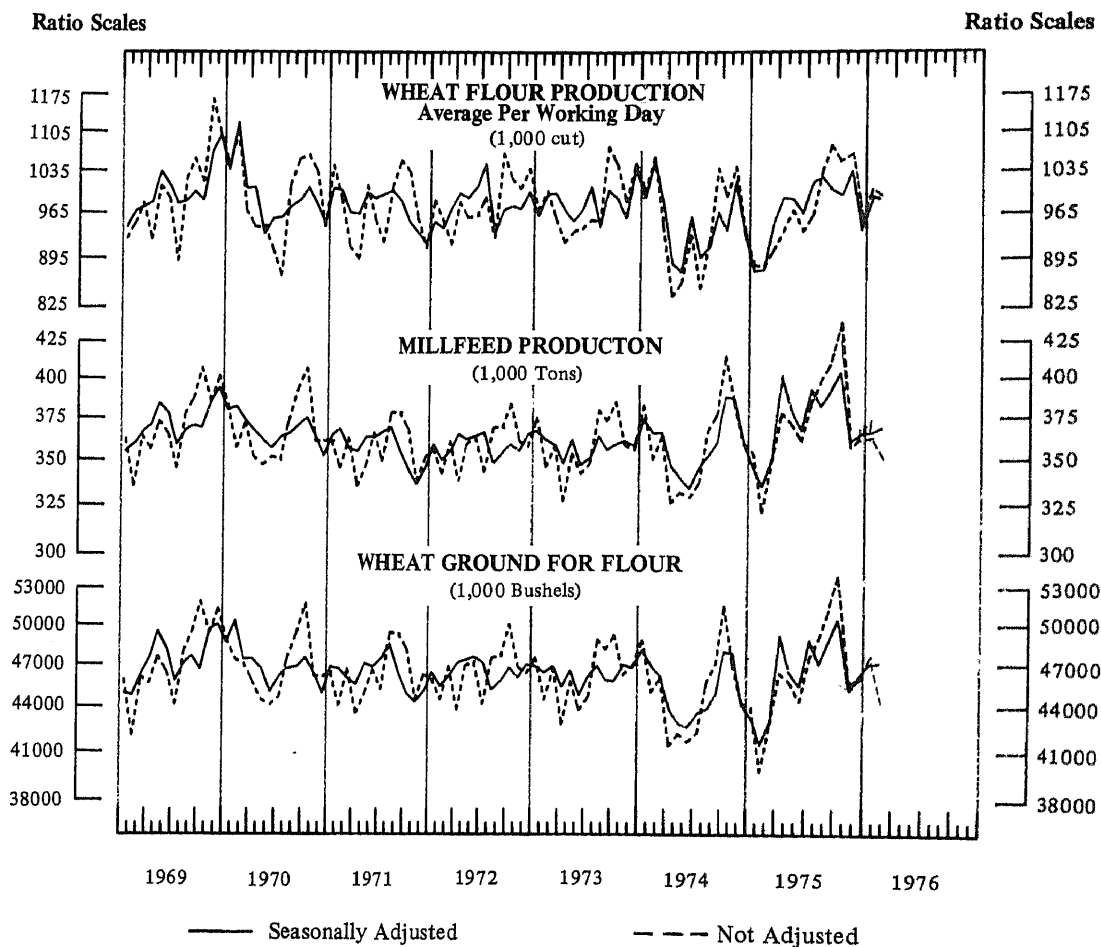


Issued May 1976

SERIES: M20A(76)-3

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 6.

## Wheat Flour Milling, 1969—1976



Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233.



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TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Seasonally adjusted)

Month and year	Wheat flour production average per working day <sup>1</sup>  (1,000 cwt)	Millfeed production  (1,000 tons)	Wheat ground for flour  (1,000 bushels)
1976			
March.....	992	389	49,237
February.....	989	367	46,583
January.....	<sup>r</sup> 992	365	46,457
1975			
December.....	930	370	45,892
November.....	1,038	363	46,049
October.....	991	404	50,329
September.....	1,004	391	48,778
August.....	1,024	382	47,017
July.....	1,014	393	48,862
June.....	964	367	45,435
May.....	987	380	46,451
April.....	989	402	49,219
March.....	946	350	42,944
February.....	878	335	41,445
January.....	876	346	43,231
1974			
December.....	933	361	44,168
November.....	1,018	387	47,851
October.....	937	388	47,950
September.....	967	360	44,847
August.....	912	352	43,784
July.....	896	345	43,521
June.....	960	334	42,628
May.....	875	340	42,894
April.....	888	347	43,902
March.....	985	366	46,182
February.....	1,054	366	46,939

Note: Data include from 2- to 5- percent estimation for nonresponse. The seasonal factors have been updated through 1973 and include factors for 1974 as shown in the May 1974 publication.

<sup>r</sup>Revised by 5 percent or more.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1976								
March.....	951	21,881	387,364	49,110	4,510 (NA)	997	95.4	74.2
February.....	995	19,891	351,557	44,674	(NA)	991	r100.4	74.2
January.....	r1,002	21,034	373,719	47,204	(NA)	991	r101.1	74.3
1975								
December.....	933	20,532	368,047	46,000	3,907 (NA)	991	94.1	74.4
November.....	1,059	20,113	359,798	45,241	(NA)	995	106.9	74.0
October.....	1,049	24,129	432,009	54,067	(NA)	995	105.4	74.4
September.....	1,080	22,681	409,197	51,162	4,140 (NA)	995	108.5	74.0
August.....	1,034	21,705	398,052	49,017	(NA)	988	104.7	73.8
July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434 (NA)	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	r97.6	74.0
March.....	r907	19,054	349,068	42,833	4,755 (NA)	959	r94.6	74.1
February.....	883	17,653	320,553	39,746	(NA)	967	91.2	74.0
January.....	885	19,466	354,360	43,927	(NA)	967	91.5	73.9
1974								
December.....	936	19,658	358,722	44,272	4,499 (NA)	967	96.8	74.0
November.....	1,043	20,853	384,077	47,012	(NA)	995	104.8	73.9
October.....	992	22,817	415,213	51,512	(NA)	995	100.0	74.0
September.....	1,041	20,837	376,616	47,039	3,885 (NA)	995	104.7	73.8
August.....	921	20,269	366,762	45,647	(NA)	1,008	91.4	74.0
July.....	851	18,735	336,533	42,246	(NA)	1,008	84.6	73.9
June.....	931	18,610	328,782	41,634	3,748 (NA)	1,008	92.4	74.5
May.....	860	18,925	332,118	42,217	(NA)	996	86.4	74.7
April.....	840	18,486	325,595	41,365	(NA)	996	84.4	74.5
March.....	944	20,760	364,253	46,063	5,297 (NA)	996	99.3	75.1
February.....	1,060	20,141	350,161	45,015	(NA)	962	104.7	74.6

Note: Data included estimates for small mills.

r Revised by 5 percent or more.

<sup>1</sup>(NA) Not available.<sup>2</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.<sup>3</sup>Collected quarterly.<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

Product code	Description of item	Unit of measure	March 1976 (Quantity)	February 1976 (Quantity)	March 1975 (Quantity)
0011173	Durum wheat (included in table 1 data):				
2041153	Durum wheat ground.....	M bu	3,280	3,318	2,528
2041155	Straight semolina durum flour.....	M cwt	1,424	1,452	1,048
	Blended semolina durum flour.	do	(D)	(D)	(D)
0011951	Rye:				
2041611	Rye ground for flour.....	M bu	353	308	435
2041618	Rye flour production.....	M cwt	163	142	200
2041618	Rye millfeed production.....	tons	1,939	1,645	2,496
2041611	Rye flour stocks <sup>1</sup> .....	M cwt	66	(NA)	29
	24 hour capacity <sup>1</sup> .....	do	9	9	9

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding. These data exclude all flour blended by macaroni and spaghetti manufactures, etc., as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies.

(NA) Not available.

<sup>1</sup>Collected quarterly.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

(1,000 cwt.)

Geographic area	Wheat ground for flour		Wheat flour production		
	March 1976 (Quantity produced)	February 1976 (Quantity produced)	March 1976 (Quantity produced)	February 1976 (Quantity produced)	March 1975 (Quantity produced)
United States, total.	49,110	44,674	21,881	19,891	19,054
Middle Atlantic.....	6,077	5,571	2,692	2,467	2,399
New York.....	5,019	4,660	2,240	2,072	2,037
North Central.....	27,912	25,447	12,390	11,260	10,950
Ohio.....	3,107	2,800	1,355	1,225	1,225
Indiana.....	1,435	1,120	608	478	512
Illinois.....	3,117	2,806	1,380	1,237	1,109
Michigan.....	810	704	358	310	310
Minnesota.....	6,015	5,880	2,702	2,656	2,417
Iowa.....	(D)	(D)	(D)	(D)	441
Missouri.....	4,230	3,875	1,911	1,744	1,787
Nebraska.....	1,666	1,356	706	573	510
Kansas.....	5,683	5,225	2,554	2,300	2,253
South Atlantic.....	2,541	2,475	1,133	1,118	949
East South Central.....	2,656	2,456	1,222	1,125	1,020
Tennessee.....	2,118	1,986	928	868	830
West South Central.....	2,953	2,652	1,317	1,182	1,033
Oklahoma.....	1,384	1,127	(D)	(D)	415
Texas.....	1,386	1,331	602	579	521
Mountain.....	2,768	2,471	1,225	1,093	821
Montana.....	594	542	270	245	279
Utah.....	(D)	(D)	(D)	(D)	(D)
Pacific.....	4,203	3,602	1,902	1,646	1,882
Washington.....	1,218	<sup>r</sup> 1,090	546	<sup>r</sup> 490	553
Oregon.....	825	682	360	310	438
California and Hawaii.....	2,160	1,830	996	846	891

Note: Detail may not add to total due to independent rounding.

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<sup>r</sup>Revised by 5 percent or more.



TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	Jan.	Dec.	1 month through Jan. 1976
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	112	76	188
Guatemala.....	20	3	23
Columbia.....	-	-	-
Ecuador.....	4	-	4
Brazil.....	8	-	8
Israel.....	27	-	27
India.....	-	-	-
Pakistan.....	-	-	-
Sri Lanka (Ceylon).....	-	25	25
South Vietnam.....	-	-	-
Philippine Republic.....	-	9	9
Morocco.....	42	31	73
Other.....	11	8	19
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	377	422	799
Nicaragua.....	1	1	2
Jamaica.....	7	9	16
Brazil.....	-	2	2
Iceland.....	8	5	13
Jordan.....	3	-	3
Saudi Arabia.....	246	318	564
Sri Lanka (Ceylon).....	-	-	-
Egypt.....	10	-	10
Philippine Republic.....	-	-	-
Korean Republic.....	-	19	19
Morocco.....	-	-	-
Other.....	102	68	170

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

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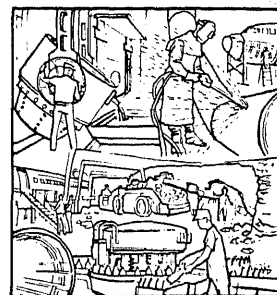


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# CURRENT INDUSTRIAL REPORTS

## Flour Milling Products

April 1976

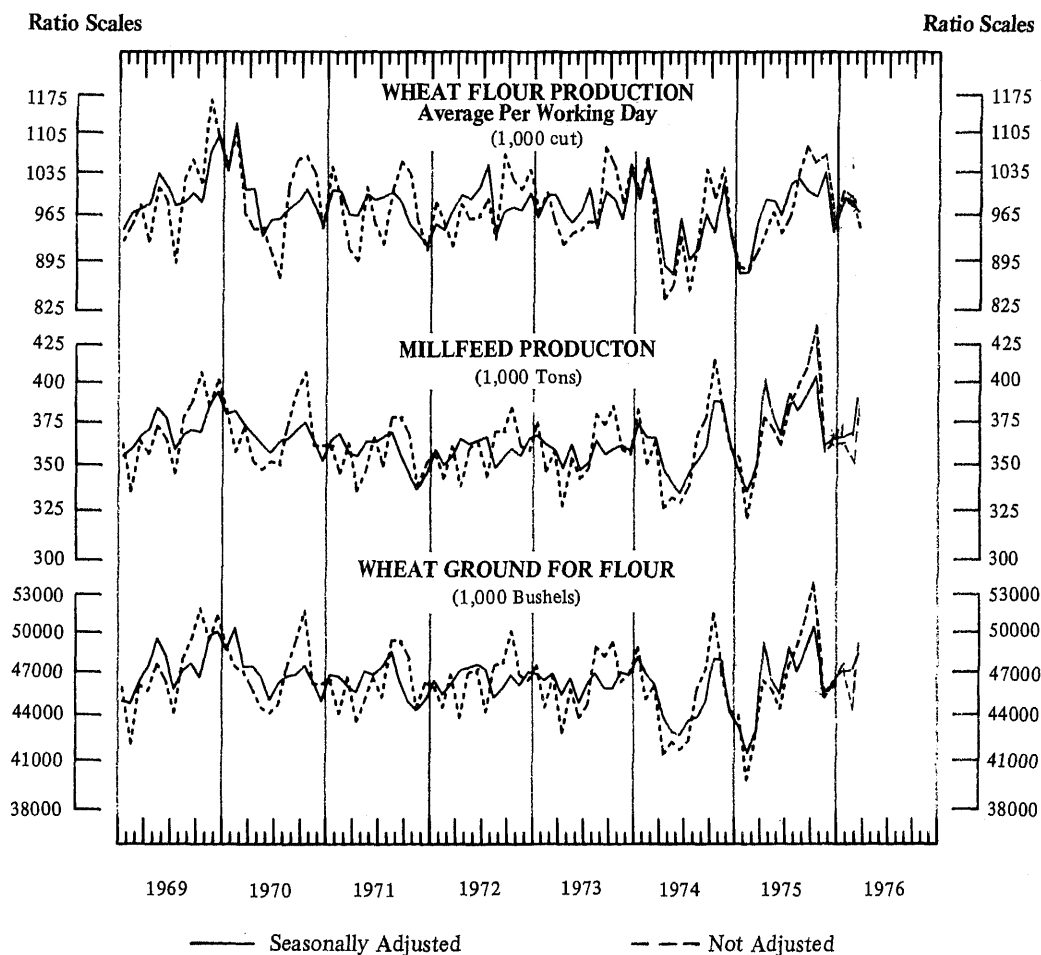


Issued June 1976

SERIES: M20A(76)-4

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### Wheat Flour Milling, 1969—1976



Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233.

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TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Seasonally adjusted)

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1976			
April.....	976	386	50,039
March.....	963	387	48,266
February.....	996	353	45,354
January.....	1,004	356	46,644
1975			
December.....	915	367	45,198
November.....	1,049	375	46,207
October.....	1,006	396	48,112
September.....	1,005	391	48,506
August.....	1,048	390	48,306
July.....	1,004	387	48,429
June.....	954	379	47,374
May.....	1,001	382	46,985
April.....	957	392	48,866
March.....	923	362	43,532
February.....	884	329	41,433
January.....	884	333	42,638
1974			
December.....	919	367	44,366
November.....	1,035	395	47,486
October.....	955	379	45,963
September.....	975	369	45,134
August.....	931	354	44,448
July.....	884	341	43,433
June.....	946	344	44,308
May.....	884	335	42,576
April.....	856	343	44,418

Note: Data include from 2- to 5- percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in Table 1C.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1976								
April.....	954	20,981	368,588	46,937	(NA)	997	95.7	74.5
March.....	947	21,771	384,578	48,845	4,510	997	94.9	74.3
February.....	995	19,891	351,557	44,674	(NA)	991	100.4	74.2
January.....	r 1,002	21,034	373,719	47,204	(NA)	991	r 101.1	74.3
1975								
December.....	933	20,532	368,047	46,000	3,907	991	94.1	74.4
November.....	1,059	20,113	359,798	45,241	(NA)	995	106.9	74.0
October.....	1,049	24,129	432,009	54,067	(NA)	995	105.4	74.4
September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
August.....	1,034	21,705	398,052	49,017	(NA)	988	104.7	73.8
July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0
March.....	r 907	19,054	349,068	42,833	4,755	959	r 94.6	74.1
February.....	883	17,653	320,553	39,746	(NA)	967	91.2	74.0
January.....	885	19,466	354,360	43,927	(NA)	967	91.5	73.9
1974								
December.....	936	19,658	358,722	44,272	4,499	967	96.8	74.0
November.....	1,043	20,853	384,077	47,012	(NA)	995	104.8	73.9
October.....	992	22,817	415,213	51,512	(NA)	995	100.0	74.0
September.....	1,041	20,837	376,616	47,039	3,885	995	104.7	73.8
August.....	921	20,269	366,762	45,647	(NA)	1,008	91.4	74.0
July.....	851	18,735	336,533	42,246	(NA)	1,008	84.6	73.9
June.....	931	18,610	328,782	41,634	3,748	1,008	92.4	74.5
May.....	860	18,925	332,118	42,217	(NA)	996	86.4	74.7
April.....	840	18,486	325,595	41,365	(NA)	996	84.4	74.5

Note: Data included estimates for small mills.

(NA) Not available. <sup>r</sup> Revised by 5 percent or more.<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 1C.--COMBINED FINAL SEASONAL AND TRADING DAY FACTORS: 1974 TO 1976

Flour production	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One year ahead--1976												
Average per day.....	99.8	99.9	98.3	97.7	96.7	97.9	95.6	98.6	107.8	104.5	101.1	102.3
Millfeed production.....	104.9	99.5	99.4	95.5	94.9	97.9	97.1	102.5	107.1	106.2	97.2	100.9
Wheat grinding.....	101.2	98.5	101.2	93.8	95.5	96.3	96.2	101.4	107.6	109.5	98.8	102.7
1975												
Average production.....	100.1	99.9	98.3	97.8	96.9	98.0	95.8	98.7	107.5	104.3	101.0	102.2
Millfeed production.....	106.4	97.2	96.5	96.5	97.1	95.2	99.2	102.2	104.7	109.2	96.0	100.1
Wheat grinding.....	103.0	95.9	98.4	94.9	97.3	93.9	97.9	101.5	105.5	112.4	97.9	101.9
1974												
Average production.....	100.6	100.0	98.3	98.1	97.3	98.4	96.3	98.9	106.8	103.9	100.8	101.9
Millfeed production.....	107.0	97.4	97.0	95.1	99.0	95.6	98.5	103.6	102.5	109.5	97.1	97.9
Wheat grinding.....	103.1	95.8	99.1	93.1	99.2	93.7	97.3	102.7	104.2	112.1	99.0	99.8

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

Product code	Description of item	Unit of measure	April 1976 (Quantity)	March 1976 (Quantity)	April 1975 (Quantity)
0011173	Durum wheat (included in table 1 data):				
2041153	Durum wheat ground.....	M bu	2,480	3,249	2,549
2041153	Straight semolina durum flour.....	M cwt	1,062	1,409	993
2041153	Blended semolina durum flour.	do	(D)	(D)	(D)
	Rye:				
0011951	Rye ground for flour.....	M bu	333	353	426
2041611	Rye flour production.....	M cwt	150	163	200
2041618	Rye millfeed production....	tons	1,820	1,939	2,262
2041611	Rye flour stocks <sup>1</sup> .....	M cwt	(NA)	66	(NA)
	24 hour capacity <sup>1</sup> .....	do	9	9	9

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding. These data exclude all flour blended by macaroni and spaghetti manufactures, etc., as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies.

(NA) Not available.

<sup>1</sup>Collected quarterly.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

(1,000 cwt.)

Geographic area	Wheat ground for flour		Wheat flour production		
	April 1976 (Quantity produced)	March 1976 (Quantity produced)	April 1976 (Quantity produced)	March 1976 (Quantity produced)	April 1975 (Quantity produced)
United States, total.	46,937	48,845	20,981	21,771	20,599
Middle Atlantic.....	5,483	6,108	2,435	2,703	2,466
New York.....	4,537	5,019	2,027	2,240	2,070
North Central.....	26,696	27,698	11,888	12,300	11,756
Ohio.....	2,964	3,107	1,301	1,355	1,260
Indiana.....	1,205	1,421	513	603	540
Illinois.....	2,789	3,099	1,235	1,375	1,062
Michigan.....	736	809	327	358	314
Minnesota.....	5,671	6,015	2,558	2,702	2,570
Iowa.....	(D)	(D)	(D)	(D)	506
Missouri.....	4,238	4,198	1,912	1,899	1,957
Nebraska.....	1,467	1,666	621	706	558
Kansas.....	5,931	5,534	2,671	2,486	2,597
South Atlantic.....	2,583	2,540	1,156	1,134	978
East South Central.....	2,411	2,657	1,115	1,222	1,088
Tennessee.....	1,918	2,118	843	928	883
West South Central.....	3,072	2,884	1,371	1,285	1,247
Oklahoma.....	1,499	1,384	(D)	(D)	601
Texas.....	1,331	<sup>1</sup> 1,317	572	<sup>r</sup> 570	556
Mountain.....	2,623	2,768	1,158	1,225	1,068
Montana.....	590	594	267	270	(D)
Utah.....	(D)	(D)	(D)	(D)	(D)
Pacific.....	4,069	4,190	1,858	1,902	1,996
Washington.....	1,232	<sup>r</sup> 1,292	566	<sup>r</sup> 581	563
Oregon.....	797	<sup>r</sup> 783	347	346	458
California and Hawaii.....	2,040	2,115	945	975	975

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

<sup>1</sup>Revised by 5 percent or more.



TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	March	Feb.	3 months through March 1976
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	68	112	256
Guatemala.....	-	20	23
Columbia.....	-	-	-
Ecuador.....	-	4	4
Brazil.....	-	8	8
Israel.....	-	27	27
India.....	14	-	14
Pakistan.....	-	-	-
Sri Lanka (Ceylon).....	-	-	25
South Vietnam.....	-	-	-
Philippine Republic.....	17	-	26
Morocco.....	21	42	94
Other.....	16	11	35
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	502	377	1,301
Nicaragua.....	1	1	3
Jamaica.....	7	7	23
Brazil.....	-	-	2
Iceland.....	4	8	17
Jordan.....	-	3	3
Saudi Arabia.....	364	246	928
Sri Lanka (Ceylon).....	-	-	-
Egypt.....	-	10	10
Philippine Republic.....	-	-	-
Korean Republic.....	-	-	19
Morocco.....	-	-	-
Other.....	126	102	296

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

- Represents zero.

## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

The current month's figures include estimates for mills whose reports were not received in time for tabulation. Such estimates are based on month-to-month trends shown by reporting firms and are generally limited to a maximum of 10 percent for any one item. Statistics for previous months may be revised, due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which were revised significantly are indicated by footnotes.

The data in this report are not adjusted for number of working days.

## SEASONAL ADJUSTMENT

This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month varia-

tions which are due to factors that are not associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

## RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report includes more historical data and more detail by States than are shown in the monthly reports.

## EXPLANATION OF TERMS

**Units of Quantity**—Grain ground is measured in bushels of 60 lbs. for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100 lbs.

**Capacity**—Based on replies to the question "What is the maximum quantity of flour that can be produced in your mill in one day if operated for 24 hours?" The capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

**Grain**—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

**Millfeed**—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

**Wheat flour**—Includes whole wheat flour, farina, industrial flour, and durum flour.

**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.

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## Flour Milling Products

May 1976

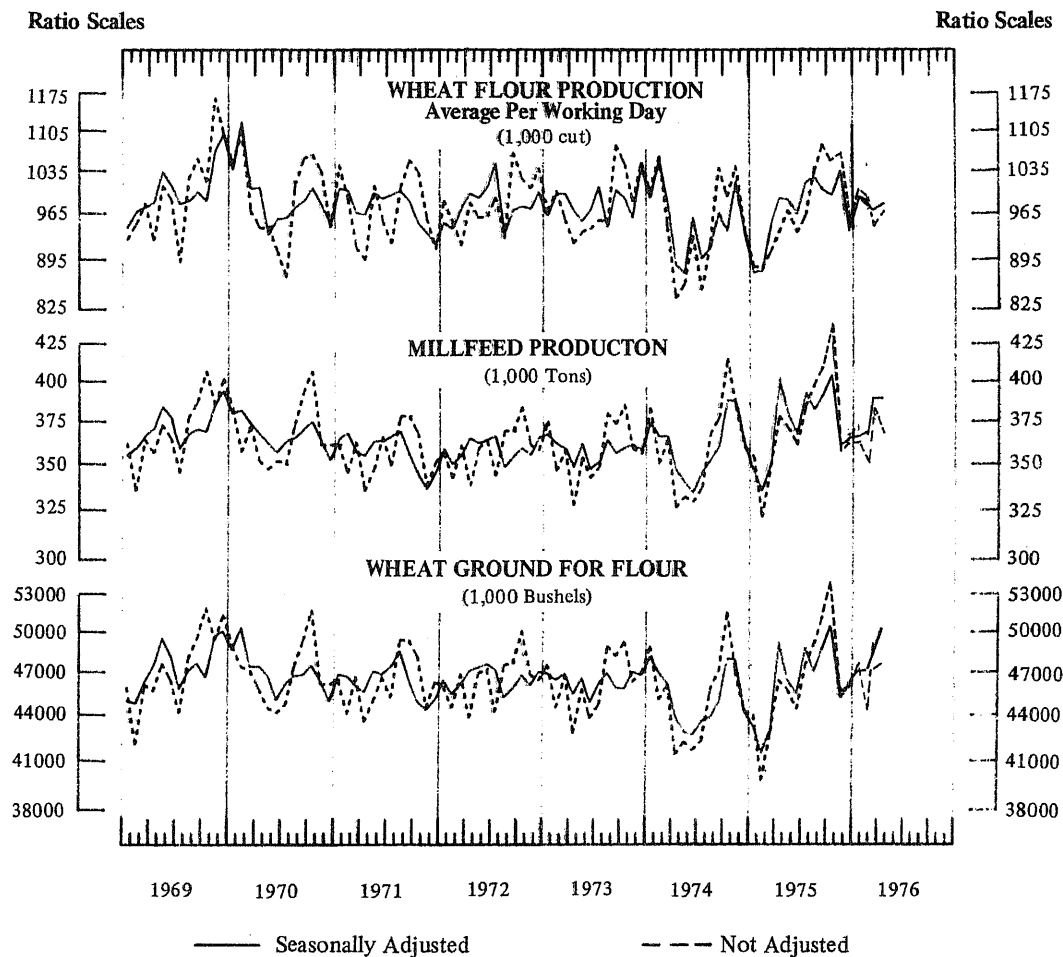


Issued July 1976

SERIES: M20A(76)-5

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 6.

## Wheat Flour Milling, 1969—1976



Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233.

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TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Seasonally adjusted)

Month and year	Wheat flour production average per working day <sup>1</sup>  (1,000 cwt)	Millfeed production  (1,000 tons)	Wheat ground for flour  (1,000 bushels)
1976			
May.....	1,084	386	49,023
April.....	983	387	50,311
March.....	963	387	48,266
February.....	996	353	45,354
January.....	1,004	356	46,644
1975			
December.....	915	367	45,198
November.....	1,049	375	46,207
October.....	1,006	396	48,112
September.....	1,005	391	48,506
August.....	1,048	390	48,306
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April.....	957	392	48,866
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February.....	884	329	41,433
January.....	884	333	42,638
1974			
December.....	919	367	44,366
November.....	1,035	395	47,486
October.....	955	379	45,963
September.....	975	369	45,134
August.....	931	354	44,448
July.....	884	341	43,433
June.....	946	344	44,308
May.....	884	335	42,576

Note: Data include from 2- to 5-percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in the April 1976 publication.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1976								
May.....	1,048	20,954	366,771	46,817	(NA)	997	105.1	74.5
April.....	960	21,113	369,972	47,192	(NA)	997	96.3	74.5
March.....	947	21,771	384,578	48,845	4,510	997	94.9	74.3
February.....	995	19,891	351,557	44,674	(NA)	991	100.4	74.2
January.....	1,002	21,034	373,719	47,204	(NA)	991	101.1	74.3
1975								
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September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
August.....	1,034	21,705	398,052	49,017	(NA)	988	104.7	73.8
July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0
March.....	907	19,054	349,068	42,833	4,755	959	94.6	74.1
February.....	883	17,653	320,553	39,746	(NA)	967	91.2	74.0
January.....	885	19,466	354,360	43,927	(NA)	967	91.5	73.9
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December.....	936	19,658	358,722	44,272	4,499	967	96.8	74.0
November.....	1,043	20,853	384,077	47,012	(NA)	995	104.8	73.9
October.....	992	22,817	415,213	51,512	(NA)	995	100.0	74.0
September.....	1,041	20,837	376,616	47,039	3,885	995	104.7	73.8
August.....	921	20,269	366,762	45,647	(NA)	1,008	91.4	74.0
July.....	851	18,735	336,533	42,246	(NA)	1,008	84.6	73.9
June.....	931	18,610	328,782	41,634	3,748	1,008	92.4	74.5
May.....	860	18,925	332,118	42,217	(NA)	996	86.4	74.7

Note: Data included estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 1C.--COMBINED FINAL SEASONAL AND TRADING DAY FACTORS: 1974 TO 1976

Flour production	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
One year ahead--1976												
Average per day.....	99.8	99.9	98.3	97.7	96.7	97.9	95.6	98.6	107.8	104.5	101.1	102.3
Millfeed production.....	104.9	99.5	99.4	95.5	94.9	97.9	97.1	102.5	107.1	106.2	97.2	100.9
Wheat grinding.....	101.2	98.5	101.2	93.8	95.5	96.3	96.2	101.4	107.6	109.5	98.8	102.7
1975												
Average production.....	100.1	99.9	98.3	97.8	96.9	98.0	95.8	98.7	107.5	104.3	101.0	102.2
Millfeed production.....	106.4	97.2	96.5	96.5	97.1	95.2	99.2	102.2	104.7	109.2	96.0	100.1
Wheat grinding.....	103.0	95.9	98.4	94.9	97.3	93.9	97.9	101.5	105.5	112.4	97.9	101.9
1974												
Average production.....	100.6	100.0	98.3	98.1	97.3	98.4	96.3	98.9	106.8	103.9	100.8	101.9
Millfeed production.....	107.0	97.4	97.0	95.1	99.0	95.6	98.5	103.6	102.5	109.5	97.1	97.9
Wheat grinding.....	103.1	95.8	99.1	93.1	99.2	93.7	97.3	102.7	104.2	112.1	99.0	99.8

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

Product code	Description of item	Unit of measure	May 1976 (Quantity)	April 1976 (Quantity)	May 1975 (Quantity)
0011173	Durum wheat (included in table 1 data):				
2041153	Durum wheat ground.....	M bu	2,553	2,431	2,615
2041155	Straight semolina durum flour.....	M cwt	1,126	1,062	1,069
	Blended semolina durum flour..	do	(D)	(D)	(D)
0011951	Rye:				
2041611	Rye ground for flour.....	M bu	241	333	416
2041618	Rye flour production.....	M cwt	110	150	193
2041611	Rye millfeed production.....	tons	1,173	1,820	2,111
	Rye flour stocks <sup>1</sup> .....	M cwt	(NA)	(NA)	(NA)
	24 hour capacity <sup>1</sup> .....	do	9	9	9

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding. These data exclude all flour blended by macaroni and spaghetti manufactures, etc., as such are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies.

(NA) Not available.

<sup>1</sup>Collected quarterly.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

(1,000 cwt.)

Geographic area	Wheat ground for flour		Wheat flour production		
	May 1976 (Quantity produced)	April 1976 (Quantity produced)	May 1976 (Quantity produced)	April 1976 (Quantity produced)	May 1975 (Quantity produced)
United States, total...	46,817	47,192	20,954	21,113	20,361
Middle Atlantic.....	5,958	5,484	2,649	2,435	2,550
New York.....	4,867	4,538	2,174	2,027	2,118
North Central.....	26,345	26,938	11,720	12,005	11,477
Ohio.....	2,114	2,978	910	1,306	1,099
Indiana.....	1,292	1,186	548	504	518
Illinois.....	2,906	2,789	1,294	1,235	1,100
Michigan.....	742	739	326	328	289
Minnesota.....	5,595	5,730	2,527	2,585	2,689
Iowa.....	(D)	(D)	(D)	(D)	405
Missouri.....	4,424	4,266	1,989	1,924	1,940
Nebraska.....	1,470	1,467	626	621	570
Kansas.....	6,131	6,088	2,765	2,752	2,470
South Atlantic.....	2,632	2,588	1,210	1,159	868
East South Central.....	2,471	2,411	1,141	1,115	1,032
Tennessee.....	1,970	1,918	865	843	828
West South Central.....	3,024	3,074	1,346	1,372	1,308
Oklahoma.....	1,417	1,499	(D)	(D)	633
Texas.....	1,362	1,333	586	573	587
Mountain.....	2,570	2,623	1,139	1,158	1,061
Montana.....	589	590	271	267	(D)
Utah.....	(D)	(D)	(D)	(D)	(D)
Pacific.....	3,817	4,074	1,749	1,869	2,065
Washington.....	1,128	1,189	515	545	688
Oregon.....	714	845	319	379	421
California and Hawaii.....	1,975	2,040	915	945	956

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

<sup>1</sup>Revised by 5 percent or more from previously published data.



TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	April	March	4 months through April 1976
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	230	68	486
Guatemala.....	17	-	40
Colombia.....	19	-	19
Ecuador.....	1	-	5
Brazil.....	-	-	8
Israel.....	28	-	55
India.....	13	14	27
Pakistan.....	-	-	-
Sri Lanka (Ceylon).....	8	-	33
South Vietnam.....	-	-	-
Philippine Republic.....	20	17	46
Morocco.....	83	21	177
Other.....	41	16	76
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	1,143	502	2,444
Nicaragua.....	5	1	8
Jamaica.....	16	7	39
Brazil.....	-	-	2
Iceland.....	11	4	28
Jordan.....	66	-	69
Saudi Arabia.....	617	364	1,545
Sri Lanka (Ceylon).....	-	-	-
Egypt.....	364	-	374
Philippine Republic.....	-	-	-
Korean Republic.....	-	-	19
Morocco.....	-	-	-
Other.....	64	126	360

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

- Represents zero.

## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

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The data in this report are not adjusted for number of working days.

## SEASONAL ADJUSTMENT

This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month varia-

tions which are due to factors that are not associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

## RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report includes more historical data and more detail by States than are shown in the monthly reports.

## EXPLANATION OF TERMS

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**Capacity**—Based on replies to the question "What is the maximum quantity of flour that can be produced in your mill in one day if operated for 24 hours?" The capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

**Grain**—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

**Millfeed**—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

**Wheat flour**—Includes whole wheat flour, farina, industrial flour, and durum flour.

**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.

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## Flour Milling Products

June 1976

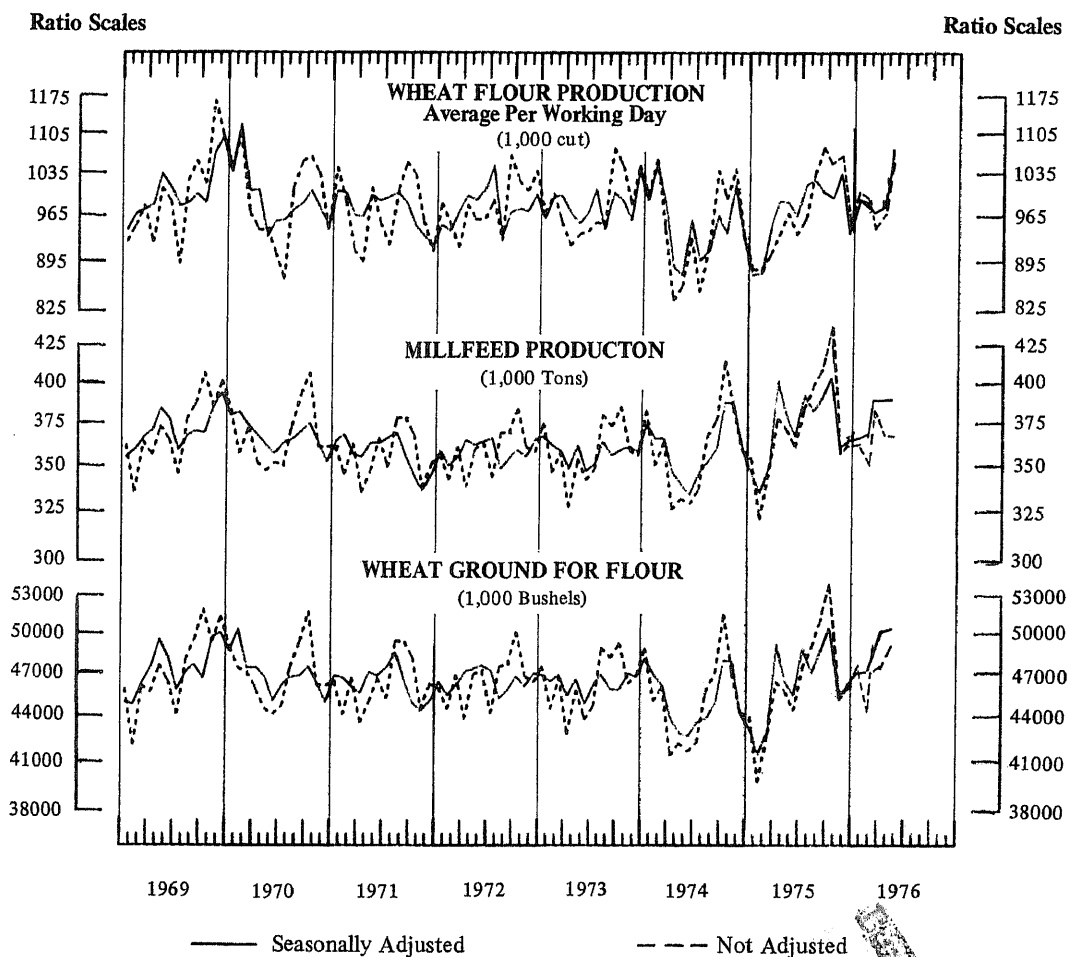


Issued August 1976

SERIES: M20A(76)-6

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 6.

## Wheat Flour Milling, 1969—1976



Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Carole Klein, (301) 763-7541.



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TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Seasonally adjusted)

Month and year	Wheat flour production average per working day <sup>1</sup>  (1,000 cwt)	Millfeed production  (1,000 tons)	Wheat ground for flour  (1,000 bushels)
1976			
June.....	931	384	53,607
May.....	1,080	389	51,287
April.....	983	387	50,311
March.....	963	387	48,266
February.....	996	353	45,354
January.....	1,004	356	46,644
1975			
December.....	915	367	45,198
November.....	1,049	375	46,207
October.....	1,006	396	48,112
September.....	1,005	391	48,506
August.....	1,048	390	48,306
July.....	1,004	387	48,429
June.....	954	379	47,374
May.....	1,001	382	46,985
April.....	957	392	48,866
March.....	923	362	43,532
February.....	884	329	41,433
January.....	884	333	42,638
1974			
December.....	919	367	44,366
November.....	1,035	395	47,486
October.....	955	379	45,963
September.....	975	369	45,134
August.....	931	354	44,448
July.....	884	341	43,433
June.....	946	344	44,308

Note: Data include from 2- to 5-percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in the April 1976 publication.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1976								
June.....	911	20,964	375,697	51,624	3,867	986	92.4	67.7
May.....	1,044	20,871	369,318	48,979	(NA)	967	108.0	71.0
April.....	960	21,113	369,972	47,192	(NA)	997	96.3	74.5
March.....	947	21,771	384,578	48,845	4,510	997	94.9	74.3
February.....	995	19,891	351,557	44,674	(NA)	991	100.4	74.2
January.....	1,002	21,034	373,719	47,204	(NA)	991	101.1	74.3
1975								
December.....	933	20,532	368,047	46,000	3,907	991	94.1	74.4
November.....	1,059	20,113	359,798	45,241	(NA)	995	106.9	74.0
October.....	1,049	24,129	432,009	54,067	(NA)	995	105.4	74.4
September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
August.....	1,034	21,705	398,052	49,017	(NA)	988	104.7	73.8
July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0
March.....	907	19,054	349,068	42,833	4,755	959	94.6	74.1
February.....	883	17,653	320,553	39,746	(NA)	967	91.2	74.0
January.....	885	19,466	354,360	43,927	(NA)	967	91.5	73.9
1974								
December.....	936	19,658	358,722	44,272	4,499	967	96.8	74.0
November.....	1,043	20,853	384,077	47,012	(NA)	995	104.8	73.9
October.....	992	22,817	415,213	51,512	(NA)	995	100.0	74.0
September.....	1,041	20,837	376,616	47,039	3,885	995	104.7	73.8
August.....	921	20,269	366,762	45,647	(NA)	1,008	91.4	74.0
July.....	851	18,735	336,533	42,246	(NA)	1,008	84.6	73.9
June.....	931	18,610	328,782	41,634	3,748	1,008	92.4	74.5

Note: Data included estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

Product code	Description of item	Unit of measure	June 1976 (Quantity)	May 1976 (Quantity)	June 1975 (Quantity)
0011173	Durum wheat (included in table 1 data):				
2041153	Durum wheat ground.....	M bu	2,581	2,544	2,195
2041155	Straight semolina durum flour.....	M cwt	1,140	1,062	921
	Blended semolina durum flour..	do	(D)	(D)	(D)
0011951	Rye:				
2041611	Rye ground for flour.....	M bu	301	251	375
2041618	Rye flour production.....	M cwt	212	113	175
2041618	Rye millfeed production.....	tons	1,591	1,267	1,886
2041611	Rye flour stocks <sup>1</sup> .....	M cwt	405	(NA)	27
	24 hour capacity <sup>1</sup> .....	do	8	8	9

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding. These data exclude all flour blended by macaroni and spaghetti manufactures, etc., as such are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies.

(NA) Not available.

<sup>1</sup>Collected quarterly.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

(1,000 cwt.)

Geographic area	Wheat ground for flour		Wheat flour production		
	June 1976 (Quantity produced)	May 1976 (Quantity produced)	June 1976 (Quantity produced)	May 1976 (Quantity produced)	June 1975 (Quantity produced)
United States, total...	51,624	<sup>r</sup> 48,979	20,964	20,871	19,631
Middle Atlantic.....	6,094	6,027	2,699	2,679	2,490
New York.....	5,046	4,983	2,249	2,226	2,105
North Central.....	26,488	26,311	11,709	11,706	11,206
Ohio.....	2,726	2,207	1,185	<sup>r</sup> 950	1,201
Indiana.....	1,248	1,292	520	548	525
Illinois.....	2,917	2,865	1,280	1,275	1,111
Michigan.....	742	741	320	325	281
Minnesota.....	5,669	5,595	2,547	2,527	2,506
Iowa.....	(D)	(D)	(D)	(D)	349
Missouri.....	4,304	4,424	1,923	1,989	1,717
Nebraska.....	1,479	1,470	619	626	619
Kansas.....	5,734	6,046	2,584	2,731	2,528
South Atlantic.....	2,456	<sup>r</sup> 2,525	1,104	1,162	945
East South Central.....	2,591	2,518	1,127	1,103	1,075
Tennessee.....	1,987	1,924	866	844	838
West South Central.....	3,153	2,990	1,400	1,333	1,090
Oklahoma.....	1,502	1,417	(D)	(D)	419
Texas.....	1,366	1,361	585	586	581
Mountain.....	2,878	2,570	1,247	1,139	945
Montana.....	616	589	278	271	273
Utah.....	(D)	(D)	(D)	(D)	(D)
Pacific.....	3,669	3,817	1,678	1,749	1,880
Washington.....	1,011	1,128	459	515	582
Oregon.....	731	714	324	319	397
California and Hawaii.....	1,927	1,975	895	915	901

Note: Detail may not add to total due to independent rounding.

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<sup>1</sup>Revised by 5 percent or more from previously published data.



TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	May	April	5 months through May 1976
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	114	230	600
Guatemala.....	-	17	40
Colombia.....	15	19	34
Ecuador.....	-	1	5
Brazil.....	-	-	8
Israel.....	-	28	55
India.....	-	13	27
Pakistan.....	-	-	-
Sri Lanka (Ceylon).....	-	8	33
South Vietnam.....	-	-	-
Philippine Republic.....	5	20	51
Morocco.....	80	83	257
Other.....	14	41	90
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	1,758	1,143	4,202
Nicaragua.....	-	5	8
Jamaica.....	10	16	49
Brazil.....	16	-	18
Iceland.....	7	11	35
Jordan.....	27	66	96
Saudi Arabia.....	526	617	2,071
Sri Lanka (Ceylon).....	-	-	-
Egypt.....	1,058	364	1,432
Philippine Republic.....	-	-	-
Korean Republic.....	-	-	19
Morocco.....	26	-	26
Other.....	88	64	448

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

- Represents zero.

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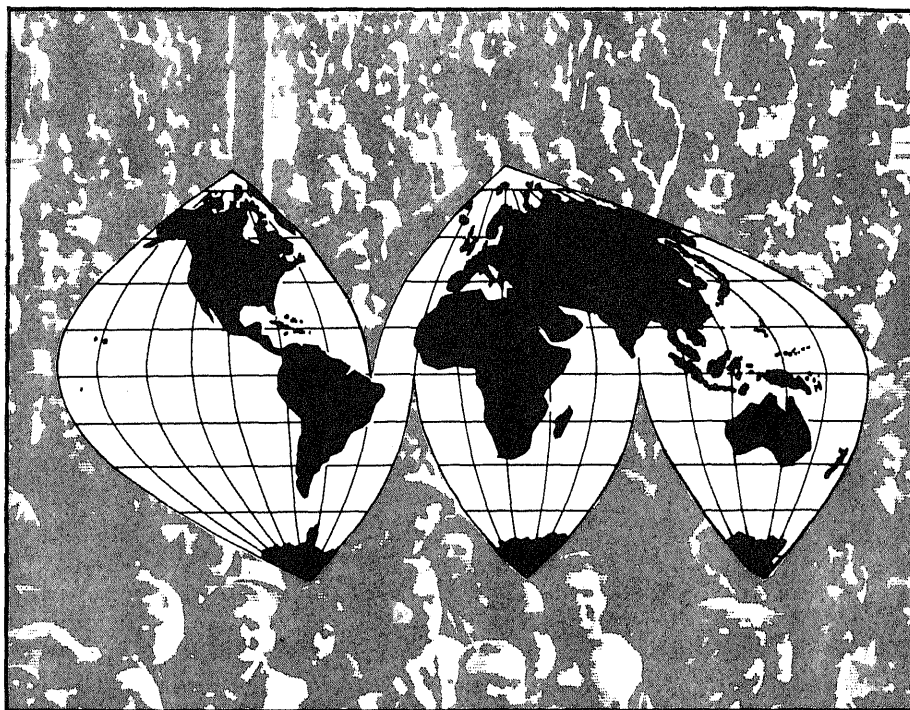
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**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.

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## Flour Milling Products

July 1976

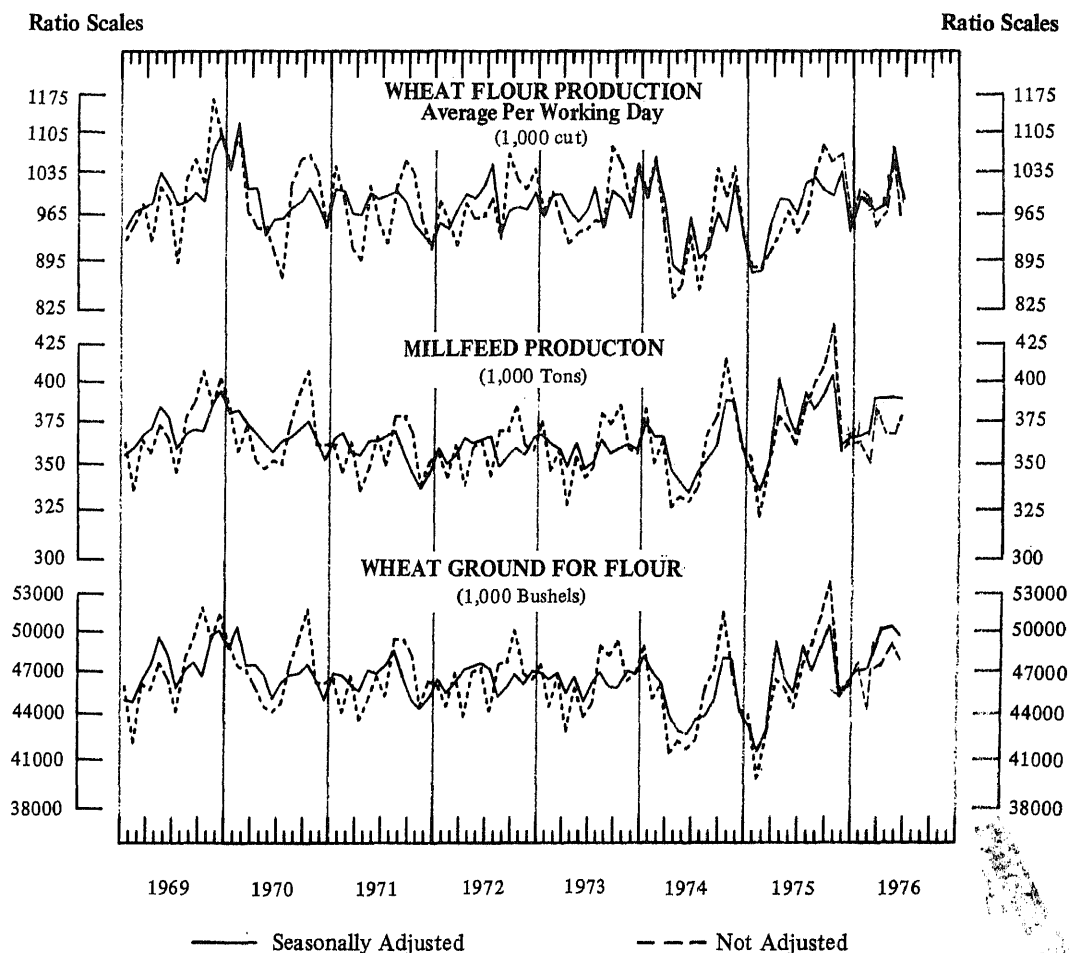


Issued August 1976

SERIES: M20A(76)-7

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## Wheat Flour Milling, 1969—1976



Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Carole Klein, (301) 763-7541.

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TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Seasonally adjusted)

Month and year	Wheat flour production average per working day <sup>1</sup>  (1,000 cwt)	Millfeed production  (1,000 tons)	Wheat ground for flour  (1,000 bushels)
1976			
July.....	1,042	411	51,703
June.....	<sup>r</sup> 978	387	<sup>r</sup> 49,476
May.....	1,080	389	<sup>r</sup> 51,287
April.....	983	387	50,311
March.....	963	387	48,266
February.....	996	353	45,354
January.....	1,004	356	46,644
1975			
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May.....	1,001	382	46,985
April.....	957	392	48,866
March.....	923	362	43,532
February.....	884	329	41,433
January.....	884	333	42,638
1974			
December.....	919	367	44,366
November.....	1,035	395	47,486
October.....	955	379	45,963
September.....	975	369	45,134
August.....	931	354	44,448
July.....	884	341	43,433
June.....	946	344	44,308

Note: Data include from 2- to 5-percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in the April 1976 publication.

<sup>r</sup>Revised.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1976								
July.....	996	21,915	399,394	49,738	(NA)	1,020	102.3	73.4
June.....	957	21,059	378,582	47,645	3,923	990	96.7	76.7
May.....	1,044	20,871	369,318	48,979	(NA)	967	108.0	71.0
April.....	960	21,113	369,972	47,192	(NA)	997	96.3	74.5
March.....	947	21,771	384,578	48,845	4,510	997	94.9	74.3
February.....	995	19,891	351,557	44,674	(NA)	991	100.4	74.2
January.....	1,002	21,034	373,719	47,204	(NA)	991	101.1	74.3
1975								
December.....	933	20,532	368,047	46,000	3,907	991	94.1	74.4
November.....	1,059	20,113	359,798	45,241	(NA)	995	106.9	74.0
October.....	1,049	24,129	432,009	54,067	(NA)	995	105.4	74.4
September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
August.....	1,034	21,705	398,052	49,017	(NA)	988	104.7	73.8
July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0
March.....	907	19,054	349,068	42,833	4,755	959	94.6	74.1
February.....	883	17,653	320,553	39,746	(NA)	967	91.2	74.0
January.....	885	19,466	354,360	43,927	(NA)	967	91.5	73.9
1974								
December.....	936	19,658	358,722	44,272	4,499	967	96.8	74.0
November.....	1,043	20,853	384,077	47,012	(NA)	995	104.8	73.9
October.....	992	22,817	415,213	51,512	(NA)	995	100.0	74.0
September.....	1,041	20,837	376,616	47,039	3,885	995	104.7	73.8
August.....	921	20,269	366,762	45,647	(NA)	1,008	91.4	74.0
July.....	851	18,735	336,533	42,246	(NA)	1,008	84.6	73.9
June.....	931	18,610	328,782	41,634	3,748	1,008	92.4	74.5

Note: Data included estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

Product code	Description of item	Unit of measure	July 1976 (Quantity)	June 1976 (Quantity)	July 1975 (Quantity)
0011173	Durum wheat (included in table 1 data):				
2041153	Durum wheat ground.....	M bu	2,398	2,581	2,477
2041155	Straight semolina durum flour.....	M cwt	1,013	1,143	997
	Blended semolina durum flour..	do	(D)	(D)	(D)
	Rye:				
0011951	Rye ground for flour.....	M bu	259	266	351
2041611	Rye flour production.....	M cwt	175	181	166
2041618	Rye millfeed production.....	tons	1,309	1,396	1,776
2041611	Rye flour stocks <sup>1</sup> .....	M cwt	399	402	(NA)
	24 hour capacity <sup>1</sup> .....	do	8	8	9

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding. These data exclude all flour blended by macaroni and spaghetti manufacturers, etc., as such are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies.

(NA) Not available.

<sup>1</sup>Collected quarterly.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

Geographic area	(1,000 cwt.)				
	Wheat ground for flour		Wheat flour production		
	July 1976 (Quantity produced)	June 1976 (Quantity produced)	July 1976 (Quantity produced)	June 1976 (Quantity produced)	July 1975 (Quantity produced)
United States, total...	49,738	47,645	21,915	21,059	21,232
Middle Atlantic.....	6,165	6,153	2,725	2,731	2,568
New York.....	5,256	5,131	2,334	2,287	2,119
North Central.....	28,141	26,661	12,379	11,772	12,321
Ohio.....	3,071	2,726	1,329	1,187	1,253
Indiana.....	1,349	1,248	572	520	557
Illinois.....	2,887	2,964	1,247	1,295	1,246
Michigan.....	734	744	315	322	307
Minnesota.....	5,604	5,681	2,519	2,554	2,704
Iowa.....	(D)	(D)	(D)	(D)	383
Missouri.....	4,604	4,304	2,043	1,923	1,916
Nebraska.....	1,617	1,479	678	619	679
Kansas.....	6,554	5,846	2,920	2,621	2,872
South Atlantic.....	2,620	2,447	1,143	1,066	1,011
East South Central.....	2,551	2,591	1,102	1,127	1,135
Tennessee.....	1,977	1,987	855	866	870
West South Central.....	3,253	3,161	1,424	1,395	1,255
Oklahoma.....	1,595	1,502	(D)	(D)	543
Texas.....	1,420	1,375	597	580	634
Mountain.....	3,011	2,878	1,309	1,247	1,205
Montana.....	668	616	307	278	288
Utah.....	(D)	(D)	(D)	(D)	(D)
Pacific.....	3,997	3,754	1,833	1,721	1,737
Washington.....	1,320	1,123	595	511	319
Oregon.....	660	704	293	315	437
California and Hawaii.....	2,017	1,927	945	895	981

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

<sup>1</sup>Revised by 5 percent or more from previously published data.



TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	June	May	5 months through June 1976
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	277	114	877
Guatemala.....	6	-	46
Colombia.....	26	15	60
Ecuador.....	3	-	8
Brazil.....	-	-	8
Israel.....	31	-	86
India.....	138	-	165
Pakistan.....	-	-	-
Sri Lanka (Ceylon).....	5	-	38
South Vietnam.....	-	-	-
Philippine Republic.....	-	5	51
Morocco.....	14	80	271
Other.....	54	-	144
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	2,164	1,758	6,366
Nicaragua.....	2	-	10
Jamaica.....	8	10	57
Brazil.....	-	16	18
Iceland.....	16	7	51
Jordan.....	-	27	96
Saudi Arabia.....	826	526	2,897
Sri Lanka (Ceylon).....	-	-	-
Egypt.....	1,163	1,058	2,595
Philippine Republic.....	-	-	-
Korean Republic.....	-	-	19
Morocco.....	-	-	26
Other.....	149	88	597

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

- Represents zero.

## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

The current month's figures include estimates for mills whose reports were not received in time for tabulation. Such estimates are based on month-to-month trends shown by reporting firms and are generally limited to a maximum of 10 percent for any one item. Statistics for previous months may be revised, due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which were revised significantly are indicated by footnotes.

The data in this report are not adjusted for number of working days.

## SEASONAL ADJUSTMENT

This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month varia-

tions which are due to factors that are not associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

## RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report includes more historical data and more detail by States than are shown in the monthly reports.

## EXPLANATION OF TERMS

**Units of Quantity**—Grain ground is measured in bushels of 60 lbs. for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100 lbs.

**Capacity**—Based on replies to the question "What is the maximum quantity of flour that can be produced in your mill in one day if operated for 24 hours?" The capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

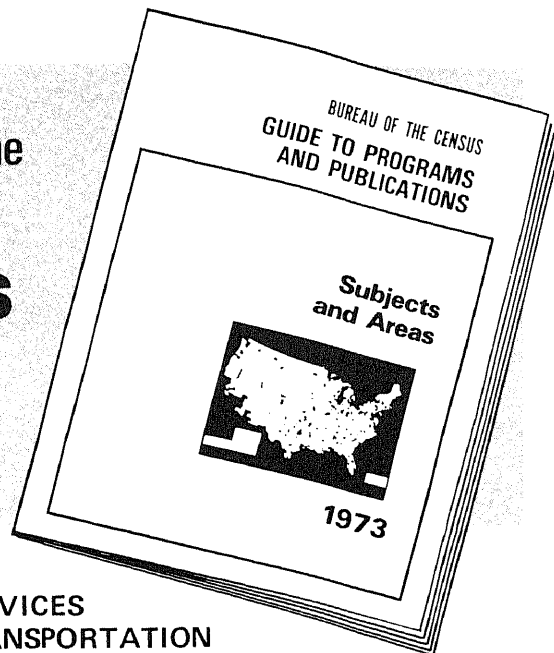
**Grain**—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

**Millfeed**—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

**Wheat flour**—Includes whole wheat flour, farina, industrial flour, and durum flour.

**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.

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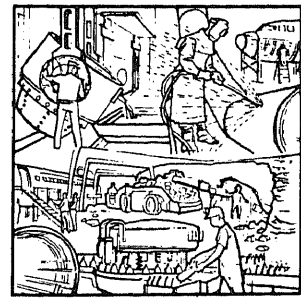
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## Flour Milling Products

August 1976

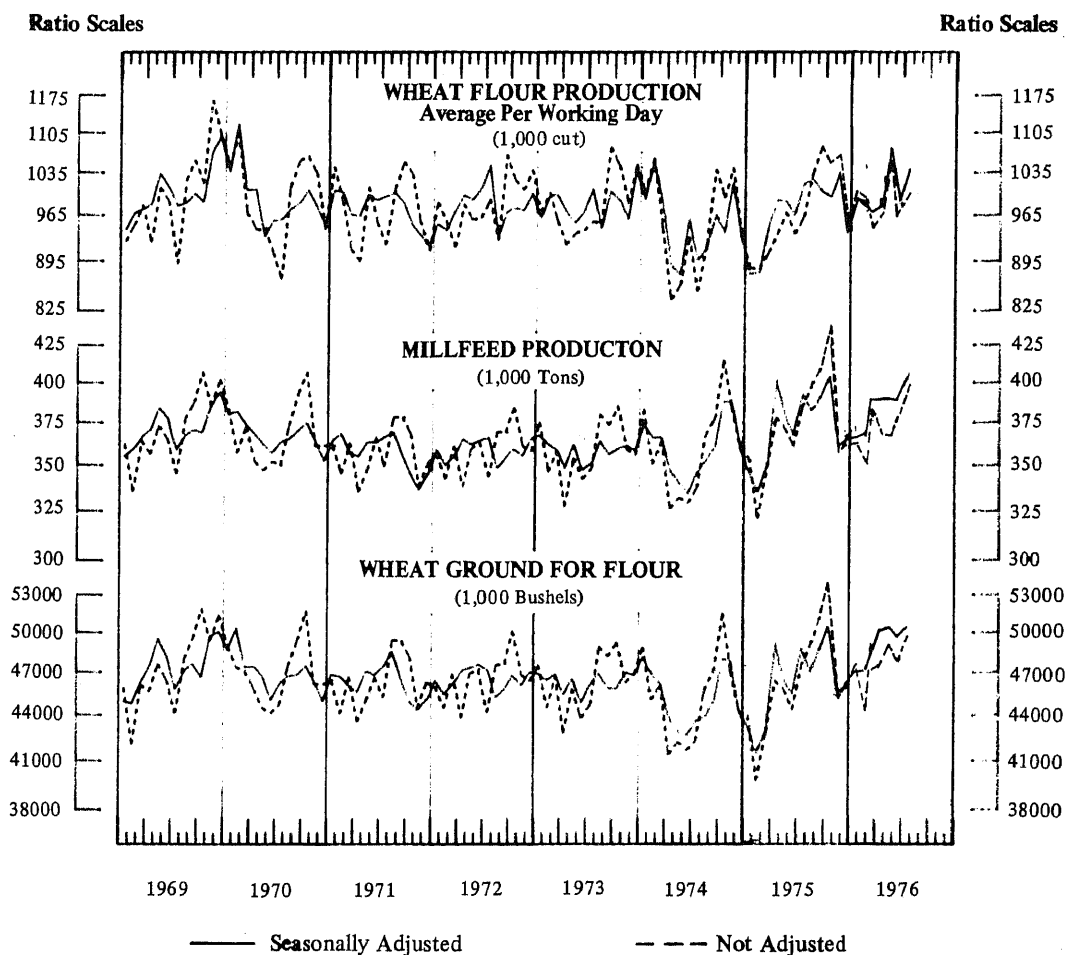


Issued September 1976

SERIES: M20A(76)-8

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 6.

## Wheat Flour Milling, 1969—1976



Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Carole Klein, (301) 763-7541.



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TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Seasonally adjusted)

Month and year	Wheat flour production average per working day <sup>1</sup>  (1,000 cwt)	Millfeed production  (1,000 tons)	Wheat ground for flour  (1,000 bushels)
1976			
August.....	1,114	425	53,670
July.....	1,035	407	51,218
June.....	<sup>r</sup> 978	387	<sup>r</sup> 49,476
May.....	1,080	389	<sup>r</sup> 51,287
April.....	983	387	50,311
March.....	963	387	48,266
February.....	996	353	45,354
January.....	1,004	356	46,644
1975			
December.....	915	367	45,198
November.....	1,049	375	46,207
October.....	1,006	396	48,112
September.....	1,005	391	48,506
August.....	1,048	390	48,306
July.....	1,004	387	48,429
June.....	954	379	47,374
May.....	1,001	382	46,985
April.....	957	392	48,866
March.....	923	362	43,532
February.....	884	329	41,433
January.....	884	333	42,638
1974			
December.....	919	367	44,366
November.....	1,035	395	47,486
October.....	955	379	45,963
September.....	975	369	45,134
August.....	931	354	44,448
July.....	884	341	43,433
June.....	946	344	44,308

Note: Data include from 2- to 5-percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in the April 1976 publication.

<sup>r</sup>Revised.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1976								
August.....	1,098	24,163	435,860	54,421	(NA)	990	110.9	74.0
July.....	989	21,751	395,596	49,272	(NA)	990	100.1	73.6
June.....	r 957	21,059	378,582	47,645	3,923	990	96.7	r 73.7
May.....	1,044	20,871	369,318	46,758	(NA)	997	104.7	74.4
April.....	960	21,113	369,972	47,192	(NA)	997	96.3	74.5
March.....	947	21,771	384,578	48,845	4,510	997	94.9	74.3
February.....	995	19,891	351,557	44,674	(NA)	991	100.4	74.2
January.....	1,002	21,034	373,719	47,204	(NA)	991	101.1	74.3
1975								
December.....	933	20,532	368,047	46,000	3,907	991	94.1	74.4
November.....	1,059	20,113	359,798	45,241	(NA)	995	106.9	74.0
October.....	1,049	24,129	432,009	54,067	(NA)	995	105.4	74.4
September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
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July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0
March.....	907	19,054	349,068	42,833	4,755	959	94.6	74.1
February.....	883	17,653	320,553	39,746	(NA)	967	91.2	74.0
January.....	885	19,466	354,360	43,927	(NA)	967	91.5	73.9
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September.....	1,041	20,837	376,616	47,039	3,885	995	104.7	73.8
August.....	921	20,269	366,762	45,647	(NA)	1,008	91.4	74.0
July.....	851	18,735	336,533	42,246	(NA)	1,008	84.6	73.9
June.....	931	18,610	328,782	41,634	3,748	1,008	92.4	74.5

Note: Data included estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

Product code	Description of item	Unit of measure	August 1976 (Quantity)	July 1976 (Quantity)	August 1975 (Quantity)
0011173	Durum wheat (included in table 1 data):				
2041153	Durum wheat ground.....	M bu	3,166	2,438	3,182
2041155	Straight semolina durum flour.....	M cwt	1,370	1,043	1,281
	Blended semolina durum flour.	do	(D)	(D)	(D)
0011951	Rye:				
2041611	Rye ground for flour <sup>1</sup> .....	M bu	309	305	349
2041618	Rye flour production <sup>1</sup> .....	M cwt	138	137	165
2041611	Rye millfeed production <sup>1</sup> .....	tons	1,858	1,680	1,739
2041611	Rye flour stocks <sup>2</sup> .....	M cwt	399	399	(NA)
	24 hour capacity <sup>2</sup> .....	do	8	8	9

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding. These data exclude all flour blended by macaroni and spaghetti manufactures, etc., as such are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies.

(NA) Not available.

<sup>1</sup>Revised by 5 percent or more from previously published figures.

<sup>2</sup>These data for June should be revised to read as follows:

Rye ground for flour	350
Rye flour production	183
Rye milled production	1,933

<sup>2</sup>Collected quarterly.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

(1,000 cwt.)

Geographic area	Wheat ground for flour		Wheat flour production		
	August 1976 (Quantity produced)	July 1976 (Quantity produced)	August 1976 (Quantity produced)	July 1976 (Quantity produced)	August 1975 (Quantity produced)
United States, total...	54,421	49,272	24,163	21,751	21,705
Middle Atlantic.....	6,398	6,053	2,852	2,678	2,749
New York.....	5,462	5,224	2,443	2,321	2,321
North Central.....	31,525	27,825	13,916	12,266	12,397
Ohio.....	3,383	3,034	1,463	1,312	1,372
Indiana.....	1,416	1,325	604	560	557
Illinois.....	3,237	2,699	1,406	1,154	1,266
Michigan.....	812	735	353	315	301
Minnesota.....	6,717	5,584	3,035	2,514	2,852
Iowa.....	(D)	(D)	379	365	384
Missouri.....	4,929	4,604	2,185	2,043	1,869
Nebraska.....	1,922	1,614	814	677	648
Kansas.....	7,086	6,625	3,166	2,964	2,695
South Atlantic.....	2,897	2,623	1,279	1,143	972
East South Central.....	2,713	2,551	1,164	1,102	1,097
Tennessee.....	2,094	1,977	899	855	829
West South Central.....	3,513	3,252	1,554	1,435	1,374
Oklahoma.....	1,692	1,597	770	722	673
Texas.....	1,590	1,417	681	607	612
Mountain.....	3,025	2,929	1,393	1,298	1,259
Montana.....	821	671	372	309	277
Utah.....	(D)	(D)	(D)	(D)	(D)
Pacific.....	4,350	3,989	2,005	1,829	1,857
Washington.....	1,330	1,312	602	591	349
Oregon.....	754	660	336	293	530
California and Hawaii.....	2,266	2,017	1,067	945	978

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.



TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	July 1976	June 1976	7 months through July 1976
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	95	277	972
Guatemala.....	-	6	46
Colombia.....	10	26	70
Ecuador.....	2	3	10
Brazil.....	-	-	8
Israel.....	6	31	92
India.....	7	138	172
Pakistan.....	-	-	-
Sri Lanka (Ceylon).....	15	5	53
Philippine Republic.....	-	-	-
Morocco.....	-	14	-
Other.....	55	54	199
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	1,236	2,164	7,602
Nicaragua.....	1	2	11
Jamaica.....	22	8	79
Brazil.....	-	-	18
Iceland.....	3	16	54
Jordan.....	-	-	96
Saudi Arabia.....	406	826	3,303
Sri Lanka (Ceylon).....	653	-	653
Egypt.....	11	1,163	2,606
Philippine Republic.....	-	-	-
Korean Republic.....	-	-	19
Morocco.....	1	-	27
Other.....	139	149	736

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

- Represents zero.

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**Grain**—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

**Millfeed**—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

**Wheat flour**—Includes whole wheat flour, farina, industrial flour, and durum flour.

**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.

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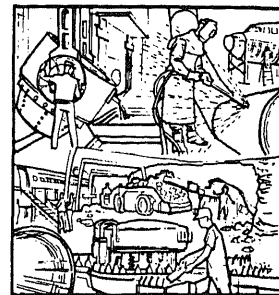
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## Flour Milling Products

September 1976

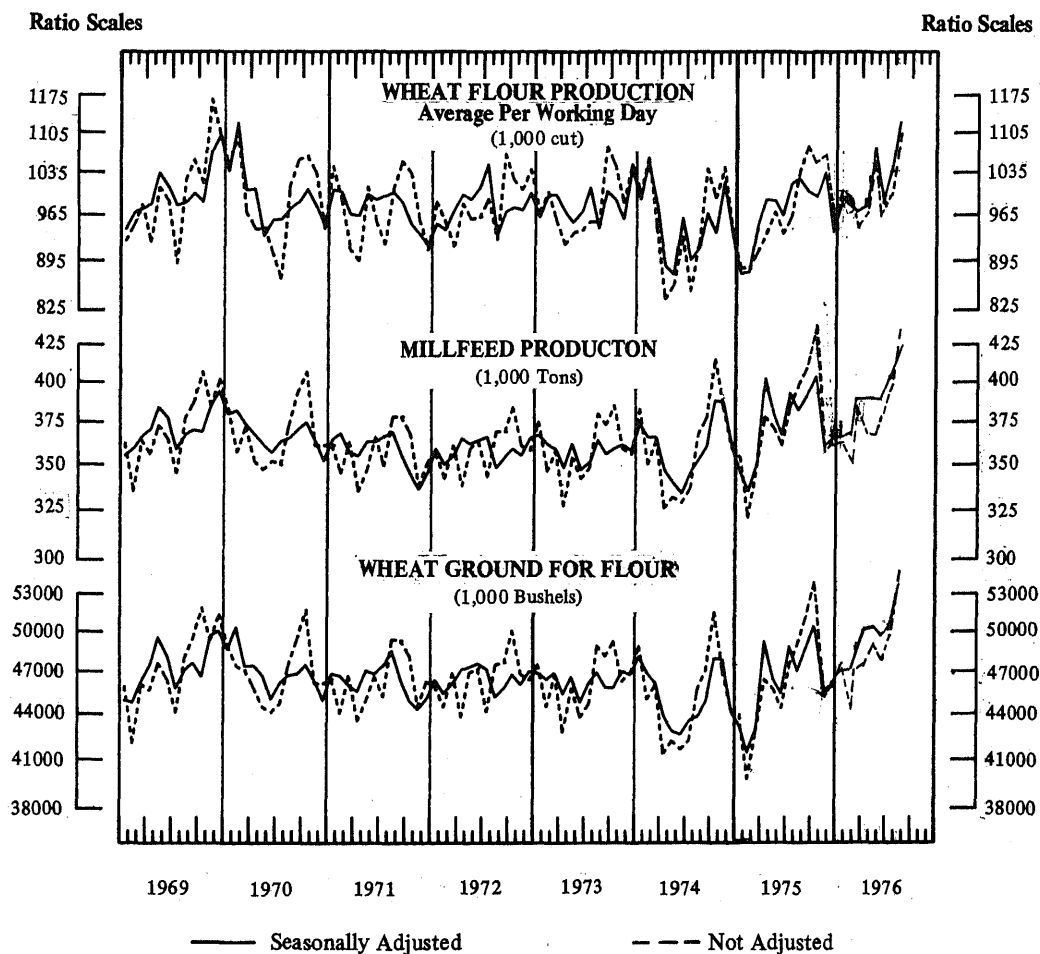


Issued October 1976

SERIES: M20A(76)-9

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 6.

## Wheat Flour Milling, 1969—1976



Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Carole Klein, (301) 763-7541.



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TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Seasonally adjusted)

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1976			
September.....	977	389	48,504
August.....	1,119	427	53,879
July.....	1,035	407	51,218
June.....	978	387	49,476
May.....	1,080	389	51,287
April.....	983	387	50,311
March.....	963	387	48,266
February.....	996	353	45,354
January.....	1,004	356	46,644
1975			
December.....	915	367	45,198
November.....	1,049	375	46,207
October.....	1,006	396	48,112
September.....	1,005	391	48,506
August.....	1,048	390	48,306
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April.....	957	392	48,866
March.....	923	362	43,532
February.....	884	329	41,433
January.....	884	333	42,638
1974			
December.....	919	367	44,366
November.....	1,035	395	47,486
October.....	955	379	45,963
September.....	975	369	45,134
August.....	931	354	44,448
July.....	884	341	43,433
June.....	946	344	44,308

Note: Data include from 2- to 5-percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in the April 1976 publication.

<sup>T</sup>Revised.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1976								
September.....	1,053	23,168	416,518	52,190	3,621	998	105.5	74.0
August.....	1,103	24,257	437,548	54,634	(NA)	990	111.4	74.0
July.....	989	21,751	395,596	49,272	(NA)	990	100.1	73.6
June.....	957	21,059	378,582	47,645	3,923	990	96.7	73.7
May.....	1,044	20,871	369,318	46,758	(NA)	997	104.7	74.4
April.....	960	21,113	369,972	47,192	(NA)	997	96.3	74.5
March.....	947	21,771	384,578	48,845	4,510	997	94.9	74.3
February.....	995	19,891	351,557	44,674	(NA)	991	100.4	74.2
January.....	1,002	21,034	373,719	47,204	(NA)	991	101.1	74.3
1975								
December.....	933	20,532	368,047	46,000	3,907	991	94.1	74.4
November.....	1,059	20,113	359,798	45,241	(NA)	995	106.9	74.0
October.....	1,049	24,129	432,009	54,067	(NA)	995	105.4	74.4
September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
August.....	1,034	21,705	398,052	49,017	(NA)	988	104.7	73.8
July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0
March.....	907	19,054	349,068	42,833	4,755	959	94.6	74.1
February.....	883	17,653	320,553	39,746	(NA)	967	91.2	74.0
January.....	885	19,466	354,360	43,927	(NA)	967	91.5	73.9
1974								
December.....	936	19,658	358,722	44,272	4,499	967	96.8	74.0
November.....	1,043	20,853	384,077	47,012	(NA)	995	104.8	73.9
October.....	992	22,817	415,213	51,512	(NA)	995	100.0	74.0
September.....	1,041	20,837	376,616	47,039	3,885	995	104.7	73.8
August.....	921	20,269	366,762	45,647	(NA)	1,008	91.4	74.0
July.....	851	18,735	336,533	42,246	(NA)	1,008	84.6	73.9
June.....	931	18,610	328,782	41,634	3,748	1,008	92.4	74.5

Note: Data included estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

Product code	Description of item	Unit of measure	September 1976 (Quantity)	August 1976 (Quantity)	September 1975 (Quantity)
0011173	Durum wheat (included in table 1 data):				
2041153	Durum wheat ground.....	M cwt	3,293	3,186	3,031
2041155	Straight semolina durum flour.....	do	1,503	1,329	1,260
	Blended semolina durum flour.	M bu	(D)	(D)	(D)
0011951	Rye:				
2041611	Rye ground for flour <sup>1</sup> .....	M cwt	298	322	372
2041618	Rye flour production <sup>1</sup> .....	M bu	135	144	176
2041618	Rye millfeed production <sup>1</sup> .....	tons	1,722	1,855	1,929
2041611	Rye flour stocks <sup>2</sup> .....	M cwt	23	(NA)	28
	24 hour capacity <sup>2</sup> .....	do	9	8	9

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

(NA) Not available.

<sup>1</sup>Revised by 5% or more from previously published figures.

<sup>1</sup>Collected quarterly.

<sup>2</sup>The data as shown for June 1976 should be revised to read 16.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

(1,000 cwt.)

Geographic area	Wheat ground for flour		Wheat flour production		
	September 1976 (Quantity produced)	August 1976 (Quantity produced)	September 1976 (Quantity produced)	August 1976 (Quantity produced)	September 1975 (Quantity produced)
United States, total...	52,190	54,634	23,168	24,257	22,681
Middle Atlantic.....	6,573	6,565	2,932	2,918	2,864
New York.....	5,499	5,462	2,465	2,443	2,398
North Central.....	29,960	31,460	13,258	13,888	13,003
Ohio.....	3,412	3,383	1,476	1,463	1,444
Indiana.....	1,200	1,420	510	605	616
Illinois.....	3,114	3,277	1,348	1,421	1,294
Michigan.....	837	804	367	350	359
Minnesota.....	6,275	6,656	2,873	3,010	2,740
Iowa.....	(D)	(D)	(D)	(D)	(D)
Missouri.....	4,845	4,881	2,145	2,169	2,184
Nebraska.....	1,706	1,922	701	814	670
Kansas.....	6,654	7,094	2,986	3,166	2,869
South Atlantic.....	2,662	2,891	1,187	1,280	1,133
East South Central.....	2,615	2,713	1,118	1,164	1,141
Tennessee.....	1,995	2,094	854	899	862
West South Central.....	3,178	3,513	1,406	1,554	1,329
Oklahoma.....	1,475	1,692	670	770	671
Texas.....	1,436	1,590	618	681	593
Mountain.....	2,923	3,025	1,313	1,393	1,329
Montana.....	720	821	324	372	320
Utah.....	(D)	(D)	(D)	(D)	(D)
Pacific.....	4,279	4,467	1,954	2,060	1,882
Washington.....	1,393	1,331	620	600	348
Oregon.....	756	870	336	393	540
California and Hawaii.....	2,130	2,266	998	1,067	994

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.



TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	August 1976	July 1976	8 months through August 1976
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	125	95	1,096
Guatemala.....	-	-	46
Colombia.....	8	10	78
Ecuador.....	-	2	10
Brazil.....	11	-	19
Israel.....	-	6	92
India.....	-	7	172
Pakistan.....	-	-	-
Sri Lanka (Ceylon).....	13	15	66
Philippine Republic.....	-	-	51
Morocco.....	80	-	351
Other.....	13	55	211
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	2,080	1,236	9,684
Nicaragua.....	3	1	13
Jamaica.....	18	22	98
Brazil.....	38	-	56
Iceland.....	7	3	60
Jordan.....	-	-	97
Saudi Arabia.....	319	406	3,621
Sri Lanka (Ceylon).....	1,139	653	1,792
Egypt.....	347	11	2,954
Philippine Republic.....	-	-	-
Korean Republic.....	-	-	20
Morocco.....	-	1	27
Other.....	209	139	946

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

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**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.



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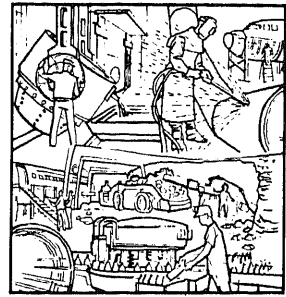


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## Flour Milling Products

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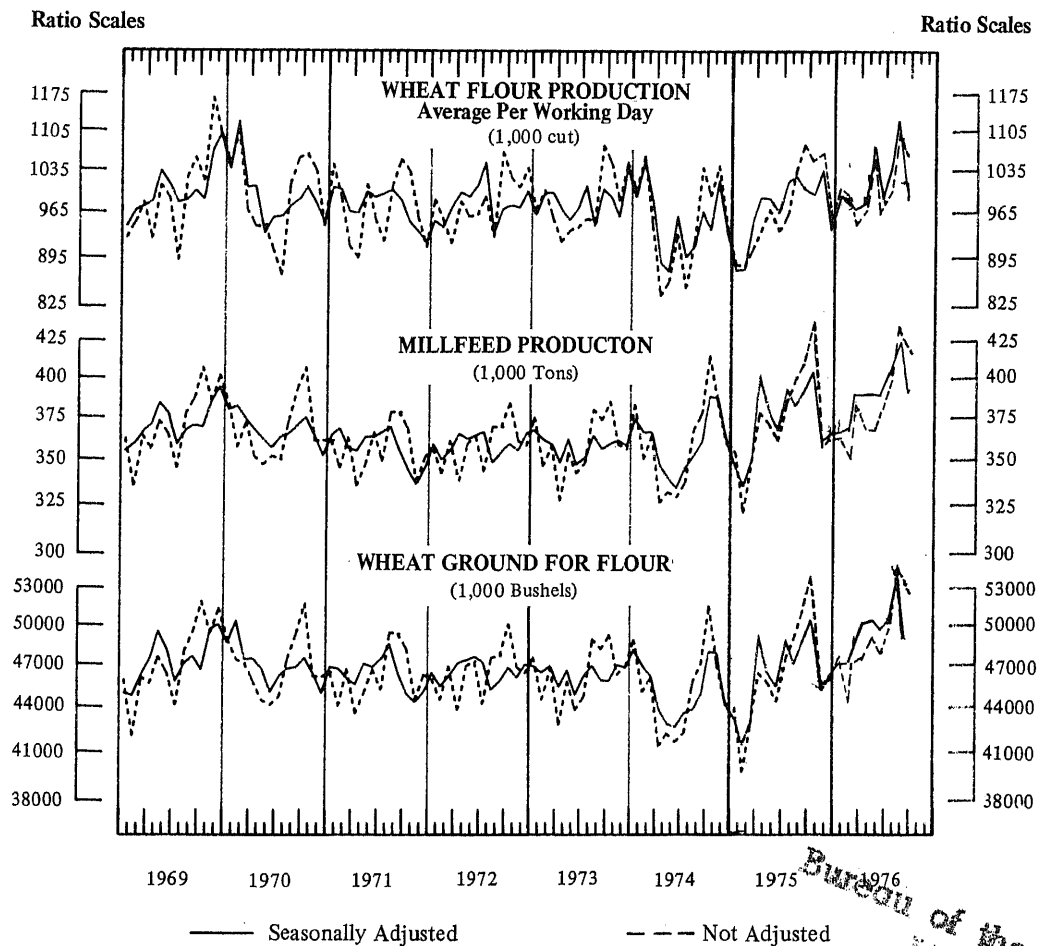


Issued November 1976

SERIES: M20A(76)-10

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(Seasonally adjusted)

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April.....	957	392	48,866
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February.....	884	329	41,433
January.....	884	333	42,638
1974			
December.....	919	367	44,366
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October.....	955	379	45,963
September.....	975	369	45,134
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July.....	884	341	43,433
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Note: Data include from 2- to 5-percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in the April 1976 publication.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays; January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
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October.....	1,096	23,007	414,240	51,899	(NA)	998	109.7	73.9
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August.....	1,103	24,257	437,548	54,634	(NA)	990	111.4	74.0
July.....	989	21,751	295,596	49,272	(NA)	990	100.1	73.6
June.....	957	21,059	278,582	47,645	3,923	990	96.7	73.7
May.....	1,044	20,871	369,318	46,758	(NA)	997	104.7	74.4
April.....	960	21,113	369,972	47,192	(NA)	997	96.3	74.5
March.....	947	21,771	384,578	48,845	4,510	997	94.9	74.3
February.....	995	19,981	351,557	44,674	(NA)	991	100.4	74.2
January.....	1,002	21,034	373,719	47,204	(NA)	991	101.1	74.3
1975								
December.....	933	20,532	368,047	46,000	3,907	991	94.1	74.4
November.....	1,059	20,113	359,798	45,241	(NA)	995	106.9	74.0
October.....	1,049	24,129	432,009	54,067	(NA)	995	105.4	74.4
September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
August.....	1,034	21,705	298,052	49,017	(NA)	988	104.7	73.8
July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0
March.....	907	19,054	349,068	42,833	4,755	959	94.6	74.1
February.....	883	17,653	320,553	39,746	(NA)	967	91.2	74.0
January.....	885	19,466	354,360	43,927	(NA)	967	91.5	73.9
1974								
December.....	936	19,658	358,722	44,272	4,499	967	96.8	74.0
November.....	1,043	20,853	384,077	47,012	(NA)	995	104.8	73.9
October.....	992	22,817	415,231	51,512	(NA)	995	100.0	74.0
September.....	1,041	20,837	376,616	47,039	3,885	995	104.7	73.8
August.....	921	20,269	366,752	45,647	(NA)	1,008	91.4	74.0
July.....	851	18,735	336,533	42,246	(NA)	1,008	84.6	73.9
June.....	931	18,610	328,782	41,634	3,748	1,008	92.4	74.5

Note: Data included estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

Product code	Description of item	Unit of measure	October 1976 (Quantity)	September 1976 (Quantity)	October 1975 (Quantity)
0011173	Durum wheat (included in table 1 data):				
2041153	Durum wheat ground.....	M bu	3,012	3,293	3,392
2041155	Straight semolina durum flour.....	M cwt	1,355	1,497	1,492
	Blended semolina durum flour.	do	(D)	(D)	(D)
0011951	Rye:				
2041611	Rye ground for flour.....	M bu	285	298	408
2041618	Rye flour production.....	M cwt	129	135	190
2041611	Rye millfeed production.....	tons	1,661	1,722	2,089
2041611	Rye flour stocks <sup>1</sup> .....	M cwt	(NA)	23	(NA)
	24 hour capacity <sup>1</sup> .....	do	9	9	10

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

(NA) Not available.

<sup>1</sup>Collected quarterly.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

(1,000 cwt.)

Geographic area	Wheat ground for flour		Wheat flour production		
	October 1976 (Quantity produced)	September 1976 (Quantity produced)	October 1976 (Quantity produced)	September 1976 (Quantity produced)	October 1975 (Quantity produced)
United States, total...	51,899	52,225	23,007	23,178	24,129
Middle Atlantic.....	6,694	6,572	3,003	2,933	3,014
New York.....	5,637	5,499	2,538	2,465	2,558
North Central.....	29,681	29,982	13,136	13,270	13,774
Ohio.....	3,491	3,412	1,505	1,476	1,582
Indiana.....	1,438	1,200	608	510	666
Illinois.....	3,113	3,114	1,351	1,348	1,439
Michigan.....	867	847	377	371	396
Minnesota.....	6,264	6,298	2,869	2,884	2,990
Iowa.....	(D)	(D)	(D)	(D)	(D)
Missouri.....	4,674	4,845	2,078	2,145	2,194
Nebraska.....	1,610	1,706	658	701	692
Kansas.....	6,408	6,643	2,884	2,983	2,991
South Atlantic.....	2,626	2,668	1,172	1,184	1,273
East South Central.....	2,697	2,615	1,148	1,118	1,231
Tennessee.....	2,104	1,995	898	854	936
West South Central.....	2,927	3,186	1,289	1,406	1,422
Oklahoma.....	1,250	1,475	568	670	719
Texas.....	1,387	1,444	591	618	600
Mountain.....	2,833	2,923	1,250	1,313	1,417
Montana.....	713	720	325	324	366
Utah.....	(D)	(D)	(D)	(D)	(D)
Pacific.....	4,491	4,279	2,009	1,954	1,998
Washington.....	1,483	1,393	657	620	461
Oregon.....	793	756	355	336	506
California and Hawaii.....	2,165	2,130	997	998	1,031

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.



TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	September 1976	August 1976	9 months through September 1976
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	192	125	1,288
Guatemala.....	-	-	46
Colombia.....	10	8	88
Ecuador.....	-	-	10
Brazil.....	5	11	24
Israel.....	-	-	92
India.....	21	-	193
Pakistan.....	-	-	-
Sri Lanka (Ceylon).....	36	13	102
Philippine Republic.....	20	-	71
Morocco.....	94	80	445
Other.....	6	13	217
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	2,447	2,080	12,131
Nicaragua.....	3	3	17
Jamaica.....	6	18	105
Brazil.....	14	38	70
Iceland.....	17	7	77
Jordan.....	-	-	97
Saudi Arabia.....	229	319	3,850
Sri Lanka (Ceylon).....	219	1,139	2,011
Egypt.....	1,878	347	4,832
Philippine Republic.....	2	-	4
Korean Republic.....	-	-	20
Morocco.....	-	-	27
Other.....	79	209	1,021

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

- Represents zero.

## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

The current month's figures include estimates for mills whose reports were not received in time for tabulation. Such estimates are based on month-to-month trends shown by reporting firms and are generally limited to a maximum of 10 percent for any one item. Statistics for previous months may be revised, due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which were revised significantly are indicated by footnotes.

The data in this report are not adjusted for number of working days.

## SEASONAL ADJUSTMENT

This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month varia-

tions which are due to factors that are not associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

## RELATED REPORTS

An annual Current Industrial Report is published in this series. The annual report includes more historical data and more detail by States than are shown in the monthly reports.

## EXPLANATION OF TERMS

**Units of Quantity**—Grain ground is measured in bushels of 60 lbs. for wheat, 56 lbs. for rye. Flour production is measured in sacks of 100 lbs.

**Capacity**—Based on replies to the question "What is the maximum quantity of flour that can be produced in your mill in one day if operated for 24 hours?" The capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

**Grain**—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

**Millfeed**—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

**Wheat flour**—Includes whole wheat flour, farina, industrial flour, and durum flour.

**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.

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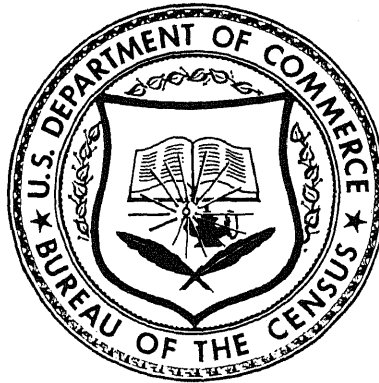
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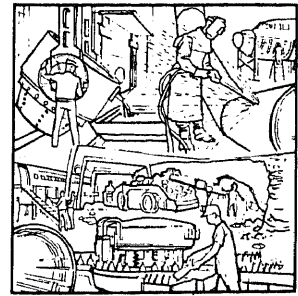
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## Flour Milling Products

November 1976

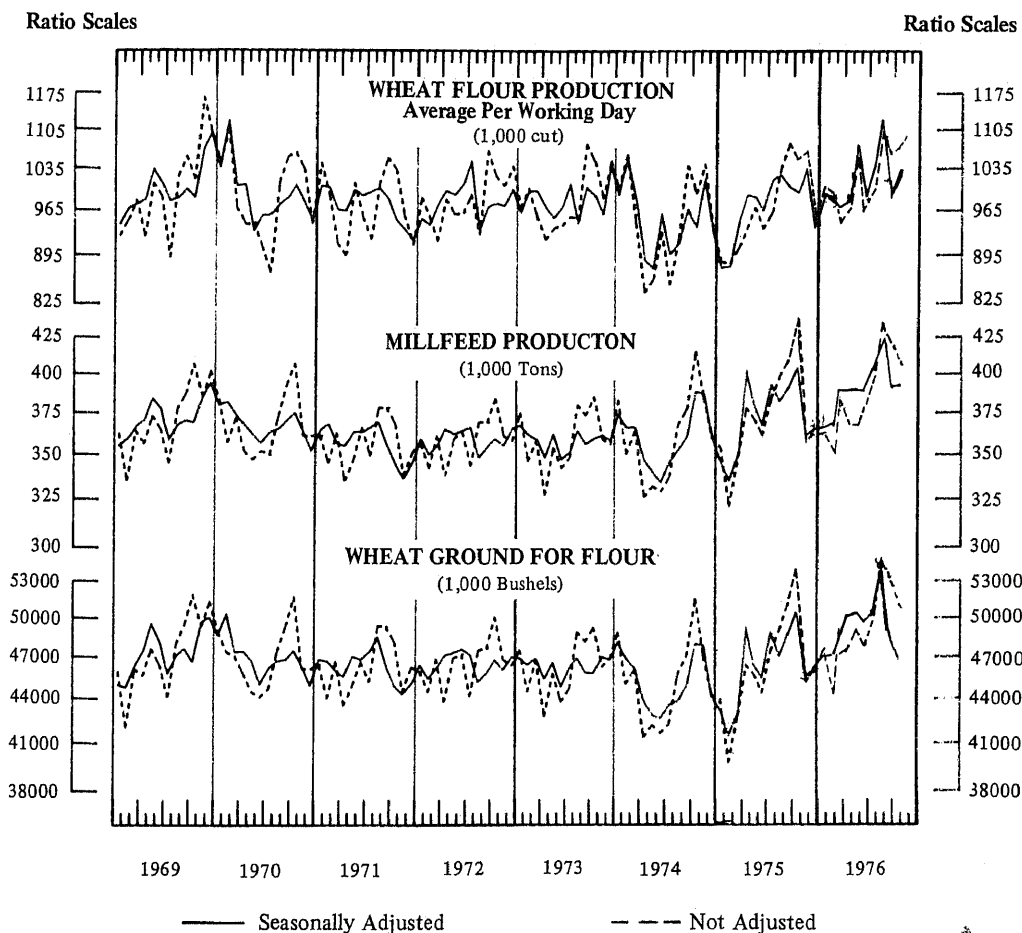


Issued January 1977

SERIES: M20A(76)-11

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 6.

## Wheat Flour Milling, 1969—1976



Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Thomas Flood, (301) 763-2415.

U.S. Department of Commerce BUREAU OF THE CENSUS

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TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Seasonally adjusted)

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1976			
November.....	939	387	46,603
October.....	1,035	386	46,773
September.....	977	389	48,536
August.....	1,119	427	53,879
July.....	1,035	407	51,218
June.....	978	387	49,476
May.....	1,080	389	51,287
April.....	983	387	50,311
March.....	963	387	48,266
February.....	996	353	45,354
January.....	1,004	356	46,644
1975			
December.....	915	367	45,198
November.....	1,049	375	46,207
October.....	1,006	396	48,112
September.....	1,005	391	48,506
August.....	1,048	390	48,306
July.....	1,004	387	48,429
June.....	954	379	47,374
May.....	1,001	382	46,985
April.....	957	392	48,866
March.....	923	362	43,532
February.....	884	329	41,433
January.....	884	333	42,638
1974			
December.....	919	367	44,366
November.....	1,035	395	47,486
October.....	955	379	45,963
September.....	975	369	45,134
August.....	931	354	44,448
July.....	884	341	43,433
June.....	946	344	44,308

Note: Data include from 2- to 5-percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in the April 1976 publication.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays; January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1976								
November.....	949	20,880	376,552	47,116	(NA)	998	95.1	73.9
October.....	1,082	22,723	410,072	51,216	(NA)	998	108.4	73.9
September.....	1,053	23,178	417,142	52,225	3,621	998	105.5	73.4
August.....	1,103	24,257	437,548	54,634	(NA)	990	111.4	74.0
July.....	989	21,751	295,596	49,272	(NA)	990	100.1	73.6
June.....	957	21,059	278,582	47,645	3,923	990	96.7	73.7
May.....	1,044	20,871	369,318	46,758	(NA)	997	104.7	74.4
April.....	960	21,113	369,972	47,192	(NA)	997	96.3	74.5
March.....	947	21,771	384,578	48,845	4,510	997	94.9	74.3
February.....	995	19,981	351,557	44,674	(NA)	991	100.4	74.2
January.....	1,002	21,034	373,719	47,204	(NA)	991	101.1	74.3
1975								
December.....	933	20,532	368,047	46,000	3,907	991	94.1	74.4
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October.....	1,049	24,129	432,009	54,067	(NA)	995	105.4	74.4
September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
August.....	1,034	21,705	298,052	49,017	(NA)	988	104.7	73.8
July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0
March.....	907	19,054	349,068	42,833	4,755	959	94.6	74.1
February.....	883	17,653	320,553	39,746	(NA)	967	91.2	74.0
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July.....	851	18,735	336,533	42,246	(NA)	1,008	84.6	73.9
June.....	931	18,610	328,782	41,634	3,748	1,008	92.4	74.5

Note: Data included estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

Product code	Description of item	Unit of measure	November 1976 (Quantity)	October 1976 (Quantity)	November 1975 (Quantity)
0011173	Durum wheat (included in table 1 data):				
2041153	Durum wheat ground.....	M bu	3,034	3,072	3,392
2041155	Straight semolina durum flour.....	M cwt	1,363	1,379	1,492
	Blended semolina durum flour.	do	(D)	(D)	(D)
	Rye:				
0011951	Rye ground for flour.....	M bu	325	285	408
2041611	Rye flour production.....	M cwt	143	130	190
2041618	Rye millfeed production.....	tons	1,772	1,661	2,089
2041611	Rye flour stocks <sup>1</sup> .....	M cwt	(NA)	(NA)	(NA)
	24 hour capacity <sup>1</sup> .....	do	9	9	10

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

(NA) Not available.

<sup>1</sup>Collected quarterly.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

(1,000 cwt.)

Geographic area	Wheat ground for flour		Wheat flour production		
	November 1976 (Quantity produced)	October 1976 (Quantity produced)	November 1976 (Quantity produced)	October 1976 (Quantity produced)	November 1975 (Quantity produced)
United States, total...	47,116	51,216	20,880	22,726	24,129
Middle Atlantic.....	6,032	6,699	2,724	3,006	3,014
New York.....	4,976	5,646	2,253	2,543	2,558
North Central.....	26,337	28,989	11,608	12,839	13,774
Ohio.....	3,182	3,493	1,369	1,507	1,582
Indiana.....	1,228	1,438	518	608	666
Illinois.....	2,719	3,113	1,188	1,351	1,439
Michigan.....	900	863	349	375	396
Minnesota.....	5,718	6,264	2,604	2,869	2,990
Iowa.....	(D)	(D)	(D)	(D)	(D)
Missouri.....	4,241	4,674	1,889	2,078	2,194
Nebraska.....	1,593	1,592	679	671	692
Kansas.....	5,027	5,736	2,247	2,574	2,991
South Atlantic.....	2,648	2,626	1,182	1,176	1,273
East South Central.....	2,500	2,697	1,078	1,148	1,231
Tennessee.....	1,937	2,104	840	898	936
West South Central.....	2,807	2,905	1,238	1,280	1,422
Oklahoma.....	1,126	1,228	511	559	719
Texas.....	1,426	1,387	610	591	600
Mountain.....	2,673	2,833	1,180	1,250	1,417
Montana.....	676	713	306	325	366
Utah.....	(D)	(D)	(D)	(D)	(D)
Pacific.....	4,119	4,467	1,870	2,027	1,998
Washington.....	1,255	1,500	558	667	461
Oregon.....	740	802	331	363	506
California and Hawaii.....	2,124	2,165	981	997	1,031

Note: Detail may not add to total due to independent rounding.

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TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	October 1976	September 1976	10 months through October 1976
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	255	192	1,543
Guatemala.....	-	-	46
Colombia.....	6	10	94
Ecuador.....	-	-	10
Brazil.....	-	5	24
Israel.....	30	-	122
India.....	32	21	225
Pakistan.....	-	-	-
Sri Lanka (Ceylon).....	-	36	102
Philippine Republic.....	82	20	153
Morocco.....	42	94	486
Other.....	63	6	281
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	992	2,447	13,123
Nicaragua.....	1	3	17
Jamaica.....	25	6	129
Brazil.....	-	14	70
Iceland.....	8	17	85
Jordan.....	-	-	97
Saudi Arabia.....	544	229	4,394
Sri Lanka (Ceylon).....	187	219	2,198
Egypt.....	160	1,878	4,992
Philippine Republic.....	-	2	4
Korean Republic.....	-	-	20
Morocco.....	-	-	27
Other.....	67	79	1,090

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

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## SEASONAL ADJUSTMENT

This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month varia-

tions which are due to factors that are not associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

## RELATED REPORTS

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**Grain**—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

**Millfeed**—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

**Wheat flour**—Includes whole wheat flour, farina, industrial flour, and durum flour.

**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.

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## Flour Milling Products

December 1976

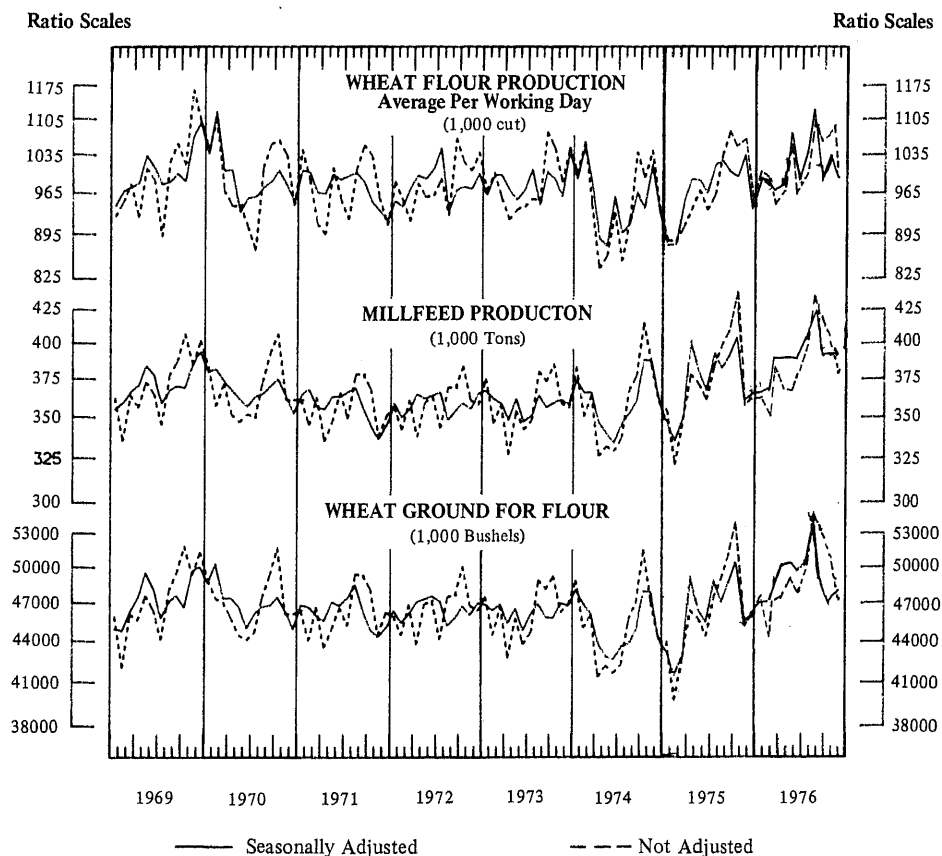


Issued January 1977

SERIES: M20A(76)-12

The statistics in this publication are based on a survey of manufacturers and represent the entire U.S. production and grain consumption of commercial wheat and rye flour mills. Estimates are included for companies whose reports were not received in time for tabulation. A more complete description of the survey appears on page 6.

## Wheat Flour Milling, 1969—1976



Inquiries concerning these figures should be addressed to the U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Thomas Flood, (301) 763-2415.



U.S. Department of Commerce BUREAU OF THE CENSUS

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TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Seasonally adjusted)

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1976			
December.....	882	366	45,409
November.....	990	391	48,063
October.....	1,035	386	46,773
September.....	977	389	48,536
August.....	1,119	427	53,879
July.....	1,035	407	51,218
June.....	978	387	49,476
May.....	1,080	389	51,287
April.....	983	387	50,311
March.....	963	387	48,266
February.....	996	353	45,354
January.....	1,004	356	46,644
1975			
December.....	915	367	45,198
November.....	1,049	375	46,207
October.....	1,006	396	48,112
September.....	1,005	391	48,506
August.....	1,048	390	48,306
July.....	1,004	387	48,429
June.....	954	379	47,374
May.....	1,001	382	46,985
April.....	957	392	48,866
March.....	923	362	43,532
February.....	884	329	41,433
January.....	884	333	42,638
1974			
December.....	919	367	44,366
November.....	1,035	395	47,486
October.....	955	379	45,963
September.....	975	369	45,134
August.....	931	354	44,448
July.....	884	341	43,433
June.....	946	344	44,308

Note: Data include from 2- to 5-percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in the April 1976 publication.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays; January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1976

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1976								
December.....	901	20,732	369,693	46,635	4,334	990	91.0	74.1
November.....	1,001	21,031	379,784	47,486	(NA)	998	100.3	73.8
October.....	1,082	22,723	410,072	51,216	(NA)	998	108.4	73.9
September.....	1,053	23,178	417,142	52,225	3,621	998	105.5	73.4
August.....	1,103	24,257	437,548	54,634	(NA)	990	111.4	74.0
July.....	989	21,751	295,596	49,272	(NA)	990	100.1	73.6
June.....	957	21,059	278,582	47,645	3,923	990	96.7	73.7
May.....	1,044	20,871	369,318	46,758	(NA)	997	104.7	74.4
April.....	960	21,113	369,972	47,192	(NA)	997	96.3	74.5
March.....	947	21,771	384,578	48,845	4,510	997	94.9	74.3
February.....	995	19,981	351,557	44,674	(NA)	991	100.4	74.2
January.....	1,002	21,034	373,719	47,204	(NA)	991	101.1	74.3
1975								
December.....	933	20,532	368,047	46,000	3,907	991	94.1	74.4
November.....	1,059	20,113	359,798	45,241	(NA)	995	106.9	74.0
October.....	1,049	24,129	432,009	54,067	(NA)	995	105.4	74.4
September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
August.....	1,034	21,705	298,052	49,017	(NA)	988	104.7	73.8
July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0
March.....	907	19,054	349,068	42,833	4,755	959	94.6	74.1
February.....	883	17,653	320,553	39,746	(NA)	967	91.2	74.0
January.....	885	19,466	354,360	43,927	(NA)	967	91.5	73.9
1974								
December.....	936	19,658	358,722	44,272	3,885	967	96.8	74.0
November.....	1,043	20,853	384,077	47,012	(NA)	995	104.8	73.9
October.....	992	22,817	415,231	51,512	(NA)	995	100.0	74.0
September.....	1,041	20,837	376,616	47,039	4,499	995	104.7	73.8
August.....	921	20,269	366,752	45,647	(NA)	1,008	91.4	74.0
July.....	851	18,735	336,533	42,246	(NA)	1,008	84.6	73.9
June.....	931	18,610	328,782	41,634	3,748	1,008	92.4	74.5

Note: Data included estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

Product code	Description of item	Unit of measure	December 1976 (Quantity)	November 1976 (Quantity)	December 1975 (Quantity)
0011173	Durum wheat (included in table 1 data):				
2041153	Durum wheat ground.....	M bu	2,917	3,034	2,521
2041155	Straight semolina durum flour.....	M cwt	1,304	1,363	1,159
	Blended semolina durum flour.	do	(D)	(D)	(D)
0011951	Rye:				
2041611	Rye ground for flour.....	M bu	393	325	368
2041618	Rye flour production.....	M cwt	187	143	177
2041618	Rye millfeed production.....	tons	2,100	1,772	1,887
2041611	Rye flour stocks <sup>1</sup> .....	M cwt	24	(NA)	22
	24 hour capacity <sup>1</sup> .....	do	10	10	9

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

(NA) Not available.

<sup>1</sup>Collected quarterly.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

(1,000 cwt.)

Geographic area	Wheat ground for flour			Wheat ground for flour		
	December 1976 (Quantity consumed)	November 1976 (Quantity consumed)	December 1975 (Quantity consumed)	December 1976 (Quantity produced)	November 1976 (Quantity produced)	December 1975 (Quantity produced)
United States, total...	46,635	47,486	46,000	20,732	21,031	20,532
Middle Atlantic.....	6,034	6,202	5,916	2,714	2,788	2,603
New York.....	4,952	4,976	4,818	2,234	2,253	2,144
North Central.....	25,943	26,525	25,514	11,530	11,705	11,324
Ohio.....	2,869	3,182	2,777	1,242	1,369	1,217
Indiana.....	1,263	1,228	1,227	529	518	521
Illinois.....	2,709	2,875	2,652	1,192	1,260	1,172
Michigan.....	744	902	699	324	350	310
Minnesota.....	5,676	5,718	5,661	2,610	2,604	2,522
Iowa.....	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	4,352	4,241	4,103	1,929	1,889	1,849
Nebraska.....	1,568	1,603	1,520	671	683	648
Kansas.....	4,984	5,049	5,250	2,244	2,265	2,367
South Atlantic.....	2,323	2,708	2,690	1,038	1,196	1,209
East South Central.....	2,693	2,500	2,467	1,148	1,078	1,133
Tennessee.....	2,046	1,937	1,986	869	840	871
West South Central.....	2,762	2,808	2,690	1,198	1,238	1,195
Oklahoma.....	1,274	1,127	1,095	578	511	(D)
Texas.....	1,286	1,426	1,319	527	610	568
Mountain.....	2,793	2,673	2,800	1,234	1,180	1,238
Montana.....	644	676	730	292	306	329
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)
Pacific.....	4,087	4,070	3,923	1,870	1,846	1,830
Washington.....	1,241	1,206	1,272	559	534	572
Oregon.....	749	740	756	334	331	344
California and Hawaii.....	2,097	2,124	1,895	977	981	914

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.



TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	November 1976	October 1976	11 months through November 1976
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	125	255	1,668
Guatemala.....	-	-	46
Colombia.....	22	6	117
Ecuador.....	3	-	13
Brazil.....	-	-	24
Israel.....	12	30	134
India.....	-	32	225
Pakistan.....	-	-	-
Sri Lanka (Ceylon).....	-	-	102
Philippine Republic.....	-	82	153
Morocco.....	39	42	525
Other.....	49	63	329
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	445	992	13,568
Nicaragua.....	1	1	18
Jamaica.....	21	25	150
Brazil.....	-	-	70
Iceland.....	12	8	97
Jordan.....	-	-	97
Saudi Arabia.....	241	544	4,635
Sri Lanka (Ceylon).....	-	187	2,198
Egypt.....	-	160	4,992
Philippine Republic.....	-	-	4
Korean Republic.....	-	-	20
Morocco.....	-	-	27
Other.....	170	67	1,260

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

- Represents zero.

## DESCRIPTION OF SURVEY

The statistics in this publication were collected on Census monthly Form M20A, "Flour Milling Products," from a sample of approximately 250 mills accounting for about 98 percent of the total U.S. production of wheat and rye flour. The monthly reporting panel consists of mills with a daily capacity of over 400 sacks of flour. The proportion estimated for smaller mills varies by State and is based on their production as reported in the census of manufactures.

The current month's figures include estimates for mills whose reports were not received in time for tabulation. Such estimates are based on month-to-month trends shown by reporting firms and are generally limited to a maximum of 10 percent for any one item. Statistics for previous months may be revised, due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which were revised significantly are indicated by footnotes.

The data in this report are not adjusted for number of working days.

## SEASONAL ADJUSTMENT

This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The seasonal adjustment program largely eliminates the effect of normal seasonal variations (including variations due to vacations, weather, etc.) as measured over the time period for which the data were used. The resulting information thus provides a better measure than the original data of the month-to-month varia-

tions which are due to factors that are not associated with a repetitive seasonal pattern. This program is amply described in the literature on this method.

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# Flour Milling Products



U.S. Department of Commerce  
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## SUMMARY FOR 1976

Issued May 1977  
M20A(76)-13

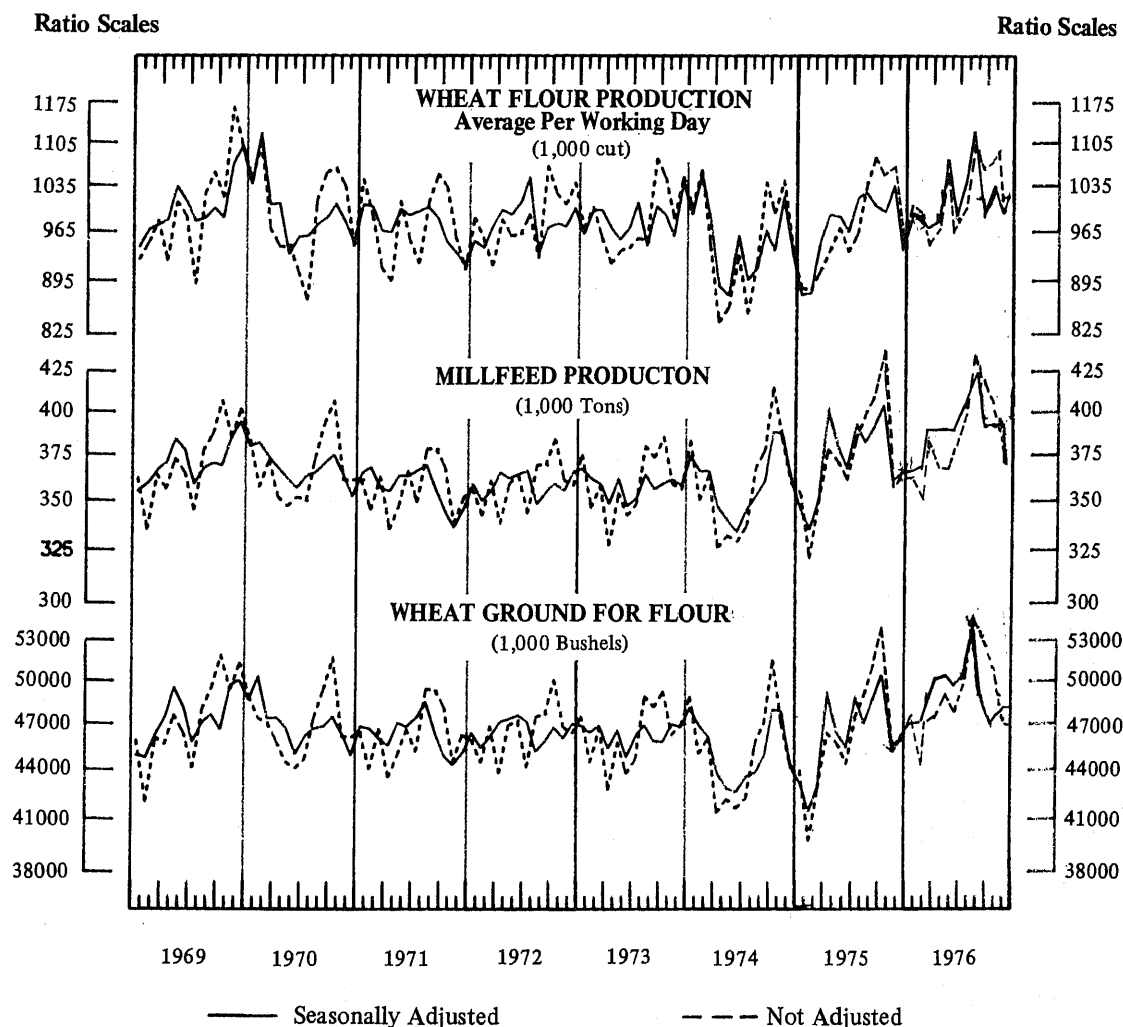
### SUMMARY OF FINDINGS

Total commercial production of wheat flour in 1976 amounted to 259.5 million cwt. sacks, about 12.4 million cwt. sacks above the 1975 production. Production figures in 1976 and 1975 were at 101.6 and 97.8 percent, respectively, of total annual capacity.

Wheat mills in 1976 and 1975 ground 584.1 and 555.9 million bushels of wheat; corresponding millfeed production figures for these years were 4,643 and 4,485 thousand tons.

Production of rye flour in 1976 amounted to 1,792 thousand cwt. sacks, compared with 2,184 thousand cwt. sacks in 1975. Rye grindings in 1976 and 1975 were 3,884 and 4,699 thousand bushels, respectively.

### Wheat Flour Milling, 1969—1976



Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Thomas Flood, (301) 763-2415.

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## DESCRIPTION OF SURVEY

**Scope of Survey**—This survey includes firms engaged in the production of wheat and rye flour. The reporting panel consists of mills with a daily capacity of over 400 sacks of flour.

**Sampling Description**—The data shown in this publication were collected on Bureau of the Census monthly Form M-20A, Flour Milling Products. The aggregates published in this report have been compiled from a sample of approximately 250 respondents accounting for 98 percent of the total U.S. production of flour mill products. The universe for this sample was the 1958 Census of Manufactures. Approximately 200 small establishments are in the nonmail universe. Their production data are estimated based upon their 1958 Census of Manufactures report. The monthly reporting panel was selected by arraying the reporting units in descending order by size for each product line, then choosing a sufficient number of respondents (beginning with the largest) to yield a coverage of approximately 98 percent for each product line.

**Survey Error**—The monthly figures include estimates for respondents in the reporting panel whose reports were not received in time for tabulation, as well as for 200 small respondents excluded from the mail panel. Missing figures for companies in the reporting panel are imputed from the month-to-month movements shown by reporting firms. The overall imputation rate is generally limited to 12 percent, including about 2 percent for small respondents excluded from the monthly reporting panel. Individual items with a higher than 12-percent imputation rate are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, both because the actual monthly movements for nonrespondents may or may not closely agree with the imputed movements, and because the estimates for nonpanel cases may reflect their current activity. The probable difference between the actual and imputed figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of imputation increases. Figures with imputation rates above 12 percent, particularly, should be used with caution.

**Revision to Previous Period Data**—Statistics for previous months may be revised due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

**Reporting Period Adjustment**—Beginning January 1975, the data were adjusted for the number of working days in the reporting period to compensate for differences in individual company reporting patterns, i.e., calendar month, 4-week, 5-week periods.

**Seasonal Adjustment**—This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The data were seasonally adjusted using the X-11 variant of the Bureau of the Census method II seasonal adjustment program. This program is a ratio-to-moving average method. It largely eliminates the effect of seasonal variations (intra-year variations repeated constantly from year to year) within the series. The seasonally adjusted data provide a better measure of the

month-to-month variations which are due to factors other than seasonal pattern. Additional information concerning seasonal adjustment is available in the seasonal adjustment supplement issued in this series.

## EXPLANATION OF TERMS

**Units of Quantity**—Grain ground is measured in bushels of 60 pounds for wheat, 56 pounds for rye. Flour production is measured in sacks of 100 pounds.

**Capacity**—Based on replies to the question "What is the maximum quantity of flour that can be produced in your mill in one day if operated for 24 hours?" The capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

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**Wheat flour**—Includes whole wheat flour, farina, industrial flour, and durum flour.

**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.

## HISTORICAL NOTE

The current M20A series of monthly reports with annual summaries of wheat ground and wheatmilling products originated in May 1923. Data by States have been published monthly since 1927. Beginning in 1931 and ending with the June 1947 report, monthly wheat flour production by capacity groups was published. The annual summary report during the years 1931 to 1964 also contained a table showing production by capacity groups. Past copies of this report and other Current Industrial Reports can be found in the Federal Depository Library in your area. These libraries keep Current Industrial Reports (called Facts for Industry, before 1959) permanently available.

## RELATED REPORTS

A monthly report is also published in this series.

The Bureau of the census also publishes reports on other related products as follows:

Series	Frequency	Title
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M20C	Monthly	Confectionery, Including Chocolate Products
<i>Foreign Trade Reports</i>		
FT-410	Monthly	U.S. Exports—Schedule B—Commodity by Country
FT-135	Monthly	U.S. General Imports—Schedule A—Commodity by Country

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**ACKNOWLEDGMENTS**

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Table 1.--SUMMARY: COMMERCIAL WHEAT MILLING PRODUCTION: 1943 TO 1976

Year	Wheat flour production <sup>1</sup> (1,000 cwt. sacks)	Wheat ground for flour (1,000 bushels)	Millfeed production (1,000 tons)	Average pounds per cwt. sacks of flour		Flour extraction rate <sup>1</sup> (percent)
				Wheat	Millfeed	
1943.....	237,900	551,100	4,718	139.0	39.7	71.9
1944.....	243,400	565,100	4,878	139.3	40.1	71.8
1945.....	274,400	640,720	5,598	140.1	40.8	71.4
1946.....	278,900	624,740	4,895	134.4	35.1	74.4
1947.....	305,499	701,799	5,913	137.8	38.7	72.6
1948.....	279,133	639,476	5,337	137.4	38.2	72.8
1949.....	234,351	543,475	4,651	139.1	39.7	71.9
1950.....	224,899	523,411	4,534	139.6	40.3	71.6
1951.....	229,292	535,235	4,626	140.1	40.4	71.4
1952.....	228,148	532,374	4,605	140.0	40.4	71.4
1953.....	222,177	515,446	4,432	139.2	39.9	71.8
1954.....	<sup>2</sup> 221,405	514,028	4,440	139.3	40.1	71.8
1955.....	225,648	522,851	4,482	139.0	39.7	71.9
1956.....	229,758	527,159	4,416	137.7	38.4	72.6
1957.....	238,888	548,532	4,584	137.8	38.4	72.6
1958.....	248,004	566,688	4,713	137.1	38.0	72.9
1959.....	250,568	570,856	4,707	136.7	37.6	73.2
1960.....	255,141	582,719	4,827	137.0	37.8	73.0
1961.....	260,316	591,999	4,858	136.4	37.3	73.3
1962.....	262,069	595,353	4,876	136.3	37.2	73.4
1963.....	260,007	589,245	4,794	136.0	36.9	73.5
1964.....	261,663	591,654	4,890	135.7	37.4	73.7
1965.....	250,384	564,724	4,645	135.3	37.1	73.9
1966.....	253,000	568,672	4,619	134.8	36.5	74.1
1967.....	245,240	549,801	4,423	134.5	36.1	74.3
1968.....	254,185	569,649	4,511	134.5	35.5	74.4
1969.....	254,094	567,956	4,458	134.1	35.1	74.6
1970.....	253,094	563,714	4,409	133.6	34.8	74.8
1971.....	249,810	555,092	4,279	133.3	34.3	75.0
1972.....	250,441	557,801	4,303	133.6	34.4	74.8
1973.....	249,265	555,269	4,303	133.7	34.5	74.8
1974.....	242,157	542,904	4,323	134.5	35.7	74.3
1975.....	247,080	555,891	4,485	134.9	36.3	74.1
1976.....	259,483	584,082	4,643	135.1	35.8	74.0

Note: Figures for all years represent total production and grindings of commercial mills in the United States. For 1941 to 1944, estimates developed with the cooperation of the Bureau of Agricultural Economics. For 1945 to 1946, Census estimates. For 1947 to 1950, as reported to Census Bureau by all commercial mills. Data for 1951 and subsequent years are based on monthly reports from all commercial mills with a daily capacity of over 400 cwt. sacks.

<sup>1</sup>Wheat flour production as compared with the amount of wheat ground. <sup>2</sup>Based on 1954 Census of Manufactures. See Census report MC-20D, Grain Mill Products.

Table 2.--COMMERCIAL WHEAT MILLING PRODUCTION, SEASONALLY ADJUSTED AND UNADJUSTED, BY MONTHS: 1976 AND 1975

Month	Seasonally adjusted			Unadjusted						Flour extraction rate <sup>2</sup>  (percent)
	Wheat flour production average per working day <sup>1</sup> (1,000 cwt. sacks)	Wheat ground for flour (1,000 bushels)	Mill feed production  (1,000 tons)	Wheat flour production (1,000 cwt. sacks)		Wheat ground for flour (1,000 bushels)	Mill feed production  (1,000 tons)	Average pounds per cwt. sack of flour		
				Average per working day <sup>1</sup>	Calendar month, total			Wheat	Millfeed	
1976, TOTAL.....	(X)	(X)	(X)	(X)	259,483	584,082	4,643	135.1	35.8	74.0
January.....	1,004	46,644	356	1,002	21,034	47,204	374	134.7	35.6	74.3
February.....	996	45,354	353	995	19,891	44,674	352	134.8	35.4	74.2
March.....	963	48,266	387	947	21,771	48,845	385	134.6	35.4	74.3
April.....	983	50,311	387	960	21,113	47,192	370	134.1	35.0	74.5
May.....	1,080	51,287	389	1,044	20,871	46,758	369	134.4	35.4	74.4
June.....	978	49,476	387	957	21,059	47,645	379	135.7	36.0	73.7
July.....	1,035	51,218	407	989	21,751	49,272	396	135.9	36.4	73.6
August.....	1,119	53,879	427	1,103	24,257	54,634	438	135.1	36.1	74.0
September.....	977	48,536	389	1,053	23,178	52,225	417	135.2	36.0	73.4
October.....	1,035	46,773	386	1,082	22,723	51,216	410	135.2	36.1	73.9
November.....	990	48,063	391	1,001	21,031	47,486	380	135.5	36.1	73.8
December.....	885	45,697	370	905	20,804	46,931	373	135.4	35.9	73.9
1975, TOTAL.....	(X)	(X)	(X)	(X)	247,080	555,891	4,485	134.9	36.3	74.1
January.....	884	42,638	333	885	19,466	43,927	354	135.4	36.4	73.9
February.....	884	41,433	329	883	17,653	39,746	321	135.1	36.4	74.0
March.....	923	43,532	362	907	19,054	42,833	349	134.9	36.6	74.1
April.....	957	48,866	392	936	20,599	46,375	378	135.1	36.7	74.0
May.....	1,001	46,985	382	970	20,361	45,718	371	134.7	36.4	74.2
June.....	954	47,374	379	935	19,631	44,375	361	135.6	36.8	73.7
July.....	1,004	48,429	387	962	21,156	47,430	384	134.5	36.3	74.3
August.....	1,048	48,306	390	1,034	21,705	49,017	398	135.5	36.7	73.8
September.....	1,005	48,506	391	1,080	22,681	51,162	409	135.3	36.1	74.0
October.....	1,006	48,112	396	1,049	24,129	54,067	432	134.4	35.8	74.4
November.....	1,049	46,207	375	1,059	20,113	45,241	360	134.9	35.8	74.0
December.....	915	45,198	367	933	20,532	46,000	368	134.4	35.8	74.4

(X) Not applicable.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays, unless such holidays fall on Saturday: January 1, May 30, July 4, Labor Day, Thanksgiving Day, and December 25.

<sup>2</sup>Wheat flour production is compared with amount of wheat ground.



Table 3.--COMMERCIAL RYE MILLING PRODUCTION, BY MONTHS: 1976 AND 1975

Month	Rye flour production (1,000 cwt. sacks)	Rye ground for flour (1,000 bushels)	Millfeed production (tons)	Average pounds ground per cwt. sack of flour		Flour extraction rate <sup>1</sup> (percent)
				Rye	Millfeed	
1976, TOTAL.....	1,792	3,884	21,292	121.4	23.8	82.4
January.....	181	390	2,040	120.7	22.5	82.9
February.....	142	308	1,645	121.5	23.2	82.3
March.....	163	353	1,939	121.3	23.8	82.5
April.....	150	333	1,820	124.3	24.3	80.4
May.....	113	251	1,267	124.4	22.4	80.4
June.....	150	320	1,933	119.5	25.7	83.7
July.....	137	305	1,680	124.7	24.5	80.2
August.....	144	322	1,855	125.2	25.8	79.9
September.....	135	298	1,722	123.6	25.5	80.9
October.....	130	285	1,661	122.8	25.6	81.5
November.....	143	325	1,772	127.3	24.8	78.6
December.....	171	364	1,958	119.2	22.9	83.9
1975, TOTAL.....	2,184	4,699	24,989	120.5	22.9	82.9
January.....	201	437	2,473	121.8	24.6	82.1
February.....	206	448	2,499	121.8	24.3	82.1
March.....	200	435	2,496	121.8	24.9	82.1
April.....	200	426	2,262	119.3	22.6	83.8
May.....	193	416	2,211	120.7	22.9	82.8
June.....	166	375	1,886	126.5	22.7	79.0
July.....	164	351	1,776	119.9	21.7	83.4
August.....	165	349	1,739	118.4	21.1	84.4
September.....	176	372	1,929	118.4	21.9	84.5
October.....	190	408	2,089	120.3	21.9	83.2
November.....	146	314	1,742	120.4	23.9	83.0
December.....	177	368	1,887	116.4	21.3	85.9

<sup>1</sup>Revised from previously published figures.<sup>1</sup>Rye flour production as compared with amount of rye ground.

Table 4.--COMMERCIAL WHEAT MILLING PRODUCTION, BY GEOGRAPHIC AREAS: 1976 AND 1975

Geographic areas	1976				1975			
	Wheat ground for flour (1,000 bushels)	Wheat flour production			Wheat ground for flour (1,000 bushels)	Wheat flour production		
		Total (1,000 cwt. sacks)	Daily (24 hour) capacity <sup>1</sup> (cwt. sacks)	Percent of estimated annual capacity <sup>2</sup>		Total (1,000 cwt. sacks)	Daily (24 hour) capacity <sup>1</sup> (cwt. sacks)	Percent of estimated annual capacity <sup>2</sup>
UNITED STATES, TOTAL.....	584,082	259,486	990,109	101.6	555,891	247,080	991,008	97.8
Middle Atlantic division.....	73,201	32,572	127,143	99.3	69,657	30,829	115,305	104.8
New York.....	60,815	27,208	106,314	99.2	58,111	25,903	95,642	106.2
North Central region.....	330,419	146,342	557,037	101.8	317,944	141,171	566,624	97.7
Ohio.....	36,206	15,707	69,995	87.0	35,439	15,399	69,922	86.4
Indiana.....	15,502	6,554	21,283	119.4	15,293	6,552	21,301	120.6
Illinois.....	35,081	15,362	64,311	92.6	31,928	14,059	62,184	88.7
Michigan.....	9,374	4,053	19,511	80.5	8,397	3,739	19,485	75.3
Minnesota.....	70,980	32,151	117,131	106.4	69,820	31,336	115,357	106.5
Iowa.....	(D)	(D)	(D)	(D)	10,672	(D)	12,396	(D)
Missouri.....	52,811	23,589	84,850	107.8	50,256	22,691	85,746	103.8
Nebraska.....	18,869	7,965	34,156	90.4	17,066	7,198	34,156	82.6
Kansas.....	70,366	31,570	106,966	114.4	67,150	30,497	119,439	100.1
South Atlantic division.....	30,936	13,754	44,303	120.3	28,064	12,074	45,297	104.5
East South Central division..	30,908	13,601	54,057	97.5	28,868	12,881	50,521	99.9
Tennessee.....	24,098	10,445	35,481	114.1	23,192	10,046	34,781	113.3
West South Central division..	35,970	15,931	57,799	106.8	33,264	14,801	62,671	92.6
Oklahoma.....	16,545	(D)	27,509	(D)	14,379	(D)	27,677	(D)
Texas.....	16,599	7,113	25,290	109.0	16,478	7,109	30,694	90.8
Mountain division.....	33,611	14,912	65,360	88.4	29,313	12,976	66,344	76.7
Montana.....	7,773	3,528	13,736	99.6	7,500	(D)	14,386	(D)
Utah.....	(D)	(D)	(D)	(D)	13,892	(D)	26,171	(D)
Pacific division.....	48,987	22,374	84,410	102.7	48,781	22,348	84,246	104.0
Washington.....	15,183	6,833	27,481	96.4	12,995	5,909	26,915	86.1
Oregon.....	9,195	4,122	20,025	79.8	11,640	5,336	20,225	103.5
California and Hawaii.....	24,609	11,419	36,904	120.0	24,146	11,103	37,106	117.3

(D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Capacity as reported for December of each year. <sup>2</sup>Estimated annual capacity is obtained by multiplying daily capacity by the number of work days during the year, 258 for 1976, and 255 for 1975. This figure is calculated on the basis of a 5-day week with allowances for the following holidays unless such holidays fall on Saturday: January 1, Memorial Day, July 4, Labor Day, Thanksgiving Day, and December 25.

Table 5.--PRODUCTION AND MILL STOCKS OF WHEAT FLOUR, BY QUARTERS: 1976 AND 1975

Quarter	Production (1,000 cwt. sacks)	Mill stocks (1,000 cwt. sacks)
1976:		
First.....	62,696	4,510
Second.....	63,043	3,923
Third.....	69,186	3,621
Fourth.....	64,558	4,334
1975:		
First.....	56,173	4,755
Second.....	60,591	4,434
Third.....	65,542	4,140
Fourth.....	64,774	3,907

Table 6.--DURUM WHEAT PRODUCTS: 1976 AND 1975

Item	1976		1975	
	Jan. 1- June 30	July 1- Dec. 31	Jan. 1- June 30	July 1- Dec. 31
Durum wheat ground (thousand bushels).....	17,186	17,940	15,922	17,071
Straight semolina and durum flour produced (thousand sacks (cwt.)).....	7,434	7,915	6,510	7,315
Blended semolina and durum flour produced (thousand sacks (cwt.)).....	(D)	(D)	(D)	(D)

(D) Withheld to avoid disclosing figures for individual companies.

Table 7.--WHEAT FLOUR AND SEMOLINA AND DURUM FLOUR--PRODUCTION, EXPORTS, IMPORTS, AND APPARENT CONSUMPTION: 1976 AND 1975

(Manufacturers' shipments represent quantity and value (f.o.b. plant) of physical shipments, including interplant transfers, from establishments during each year. Export values are values at seaport, border point, or airport of exportation; they are based on selling price, including freight, insurance, and other charges to the port of exportation. Import values are generally the market values in the foreign country and exclude U.S. import duties, transportation, and insurance cost. Total import values and unit prices of imported commodities would thus tend to be understated relative to domestic output. Because manufacturers' shipments of certain products may be used as materials for incorporation into other products, it may not be valid to compare exports and imports with shipments for combinations of product groups. See "Limitations on the Comparison of Export, Import, and Output Data")

Item	Manufac- turers' production  (1,000 cwt.)	Exports of domestic merchandise <sup>1</sup>		Percent, exports to manufac- turers' production	Imports for consumption  (1,000 cwt.)	Calculated import duty  (\$1,000)	Apparent consump- tion <sup>4</sup>  (1,000 cwt.)	Percent, imports to apparent consumption
		Quantity  (1,000 cwt.)	Value  (\$1,000)					
		1976						
Wheat flour.....	259,486	<sup>2</sup> 15,663	<sup>2</sup> 157,266	6.0	( <sup>4</sup> )	(NA)	243,823	(NA)
Semolina and durum flour.....	15,349	<sup>3</sup> 30	<sup>3</sup> 264	0.2	( <sup>4</sup> )	(NA)	15,319	(NA)
		1975						
Wheat flour.....	247,080	<sup>2</sup> 11,917	<sup>2</sup> 125,606	4.8	( <sup>4</sup> )	(NA)	235,163	(NA)
Semolina and durum flour.....	13,825	<sup>3</sup> 19	<sup>3</sup> 233	0.1	( <sup>4</sup> )	(NA)	13,806	(NA)

(D) Withheld to avoid disclosing figures for individual companies. (NA) Not available.

<sup>1</sup>Source: Bureau of the Census Report FT 610, U.S. Exports of Domestic Merchandise; SIC-Based Products and Area.<sup>2</sup>1976 Schedule B codes 0460110, 0460120.<sup>3</sup>1976 and 1975 Schedule B code 0460130.<sup>4</sup>Apparent consumption is derived by subtracting exports from the total manufacturers' production. Imports are not used in this instance because import data for flour are not separately available. Imports (TSUSA codes 1314000 and 1318500) of flour are considered to be insignificant. Also see footnote 5 below.<sup>5</sup>TSUSA codes 1314000 and 1318500 could have an undetermined amount of flour which means that Apparent Consumption may be slightly understated. (1314000 is "Wheat, Milled, Fit for Human Consumption;" 1318500 is "Milled Grains, Mixed, Fit for Human Consumption.")

## LIMITATIONS ON THE COMPARISON OF EXPORT, IMPORT, AND DOMESTIC OUTPUT DATA

Generally, it is somewhat easier to find a reasonable statistical basis for a comparison of exports with domestic output than for a comparison of imports with domestic output. Aside from the differences in the basic commodity classifications used, there are a substantial number of imported commodities which are not produced in the United States or are produced in very small quantities. On the other hand, the merchandise exported from the United States is ordinarily produced in this country and reflects items important in output.

There are other problems affecting the comparability of the three sets of data. Differences in methods of valuation is perhaps the principal such problem. There may be elements of duplication in output data but not in imports or exports; low-value transactions are excluded from data for individual export and import commodity classifications; and a small portion of manufacturing output is not allocated to detailed commodity lines. All of these factors affect comparability to some degree. For these reasons the relationships shown in this report should be considered as only approximations.

(a) *Valuation*—Domestic producers' shipments, or production, are usually valued at the point of production—the factory, mine, or farm.

On the other hand, exports are by definition values at the point of exportation—seaport, border point, or airport. Export values are the selling price, or cost if not sold, and include expenditures for freight, insurance, and other charges to the export point.

Further, the exporters' trade margin above costs increases the export values compared with producers' values. Information on the magnitude of this incremental margin on a commodity-by-commodity basis is not available.

The dollar value shown for imports in the basic statistics is defined ordinarily as the market value in the foreign country and excludes U.S. import duties, transportation, insurance, and other costs. In actual practice only the values reported for imports subject to an ad valorem rate of duty (accounting for 10 to 15 percent of total imports) tend to conform to this definition. For other imports, the reported values may inadvertently include ocean freight; intracompany shipments may reflect arbitrary values; etc.

Thus, import values tend to understate the unit prices at which imported goods are sold in the U.S. market, in that they do not cover transportation, insurance costs, import duties, and other costs. By the same token, the total value of imports relative to domestic output tends to be understated if viewed at the point of entry into the U.S. market. The calculated value of import duties is shown separately for each commodity line in the table, but sufficient information is not available on the

transportation, insurance, and other costs for individual commodities for those costs to be shown in this report.

(b) *Duplication in Quantity and Value of Output*—Because producers' shipments of some commodities may be used as materials for incorporation into other commodities, combinations of data for such commodities may contain a certain amount of duplication. Thus, percentages of exports to output or imports to apparent consumption (output plus imports minus exports) at 4-digit or broader levels may be understated.

Where the duplication is known to be substantial, the output data are appropriately noted in the table.

(c) *Low-Value Export and Import Transactions*—Commodity information is not shown for individual imports valued under \$251. For exports, commodity information is not reported for shipments individually valued under \$251 effective October 1969 and for shipments valued under \$100 prior to October 1969. This is believed to have only negligible effect on the statistics for the bulk of the commodities.

(d) *Manufacturers' Shipments, Not Specified by Kind*—The value of manufacturers' shipments at the 4-digit commodity level often includes a small amount which is not distributed among the individual 5-digit product classes. Export and import percentages at the more detailed levels might thus be slightly overstated.

(e) *Time Lag Between Output and Exports*—There will sometimes be a lag between the time a commodity is produced or shipped by the producer and the time it is actually exported. The time lag will usually be greater if the merchandise moves through intermediaries (wholesalers, exporters) rather than directly from producers into the export market. Ordinarily, this type of discrepancy would not be very important in annual figures.

(f) *"Direct" vs "Total" Commodity Exports*—The commodity export data in this report represent direct exports of those commodities. They do not include the exports of the commodities which are incorporated into other, more finished products and exported in finished form. Thus, by showing only direct exports, the relation of exports to output for intermediate products, such as steel shapes and forms, is considerably understated. The figure for steel exported as such, does not include steel incorporated in automobiles, tractors, etc., which are also exported.

(g) *Used Commodities*—With a few exceptions, used or rebuilt commodities are classified in the same import or export codes as is new merchandise. Percentages are thus overstated to the extent that used or rebuilt products are significant in trade.

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# Flour Milling Products

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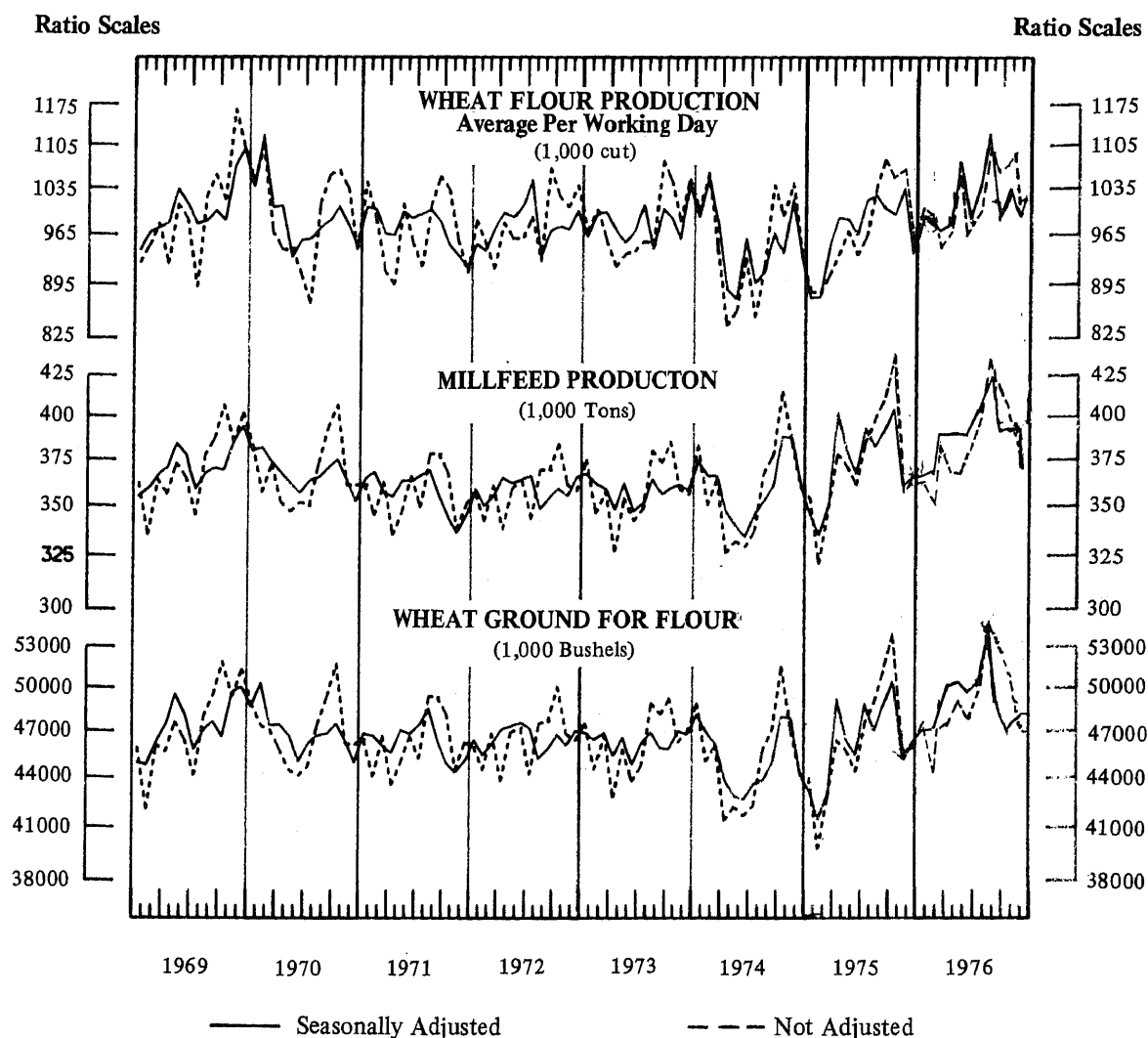
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The statistics in this publication are based on a survey of manufacturers and represent total U.S. production of flour milling products. Estimates are included for companies whose reports were not received in time for tabulation. A more com-

plete description of this survey appears on page 6. An annual current industrial report is published in this series and includes all the months for the current and previous years and incorporates all known revisions in the series.

## Wheat Flour Milling, 1969—1976



Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Thomas Flood, (301) 763-2415.

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TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1977

(Seasonally adjusted)

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1977			
January.....	1,024	366	47,993
1976			
December.....	885	370	45,697
November.....	990	391	48,063
October.....	1,035	386	46,773
September.....	977	389	48,536
August.....	1,119	427	53,879
July.....	1,035	407	51,218
June.....	978	387	49,476
May.....	1,080	389	51,287
April.....	983	387	50,311
March.....	963	387	48,266
February.....	996	353	45,354
January.....	1,004	356	46,644
1975			
December.....	915	367	45,198
November.....	1,049	375	46,207
October.....	1,006	396	48,112
September.....	1,005	391	48,506
August.....	1,048	390	48,306
July.....	1,004	387	48,429
June.....	954	379	47,374
May.....	1,001	382	46,985
April.....	957	392	48,866
March.....	923	362	43,532
February.....	884	329	41,433
January.....	884	333	42,638
1974			
December.....	919	367	44,366

Note: Data include from 2- to 5-percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in the April 1976 publication.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays; January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1974 TO 1977

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1977								
January.....	1,022	21,467	383,963	48,569	(NA)	990	103.5	73.7
1976								
December.....	905	20,804	372,844	46,931	4,334	990	91.4	73.9
November.....	1,001	21,031	379,784	47,486	(NA)	998	100.3	73.8
October.....	1,082	22,723	410,072	51,216	(NA)	998	108.4	73.9
September.....	1,053	23,178	417,142	52,225	3,621	998	105.5	73.4
August.....	1,103	24,257	437,548	54,634	(NA)	990	111.4	74.0
July.....	989	21,751	395,596	49,272	(NA)	990	100.1	73.6
June.....	957	21,059	378,582	47,645	3,923	990	96.7	73.7
May.....	1,044	20,871	369,318	46,758	(NA)	997	104.7	74.4
April.....	960	21,113	369,972	47,192	(NA)	997	96.3	74.5
March.....	947	21,771	384,578	48,845	4,510	997	94.9	74.3
February.....	995	19,891	351,557	44,674	(NA)	991	100.4	74.2
January.....	1,002	21,034	373,719	47,204	(NA)	991	101.1	74.3
1975								
December.....	933	20,532	368,047	46,000	3,907	991	94.1	74.4
November.....	1,059	20,113	359,798	45,241	(NA)	995	106.9	74.0
October.....	1,049	24,129	432,009	54,067	(NA)	995	105.4	74.4
September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
August.....	1,034	21,705	398,052	49,017	(NA)	988	104.7	73.8
July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0
March.....	907	19,054	349,068	42,833	4,755	959	94.6	74.1
February.....	883	17,653	320,553	39,746	(NA)	967	91.2	74.0
January.....	885	19,466	354,360	43,927	(NA)	967	91.5	73.9
1974								
December.....	936	19,658	358,722	44,272	3,885	967	96.8	74.0

Note: Data included estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

Product code	Description of item	Unit of measure	January 1977 (Quantity)	December 1976 (Quantity)	January 1976 (Quantity)
0011173	Durum wheat (included in table 1 data): Durum wheat ground.....	M bu	3,228	2,917	3,063
2041153	Straight semolina durum flour.....	M cwt	1,448	1,304	1,306
2041155	Blended semolina durum flour.	do	(D)	(D)	(D)
0011951	Rye: Rye ground for flour.....	M bu	308	<sup>r</sup> 364	390
2041611	Rye flour production.....	M cwt	142	<sup>r</sup> 171	181
2041618	Rye millfeed production.....	tons	1,773	<sup>r</sup> 1,958	2,040
2041611	Rye flour stocks <sup>1</sup> .....	M cwt	(NA)	24	(NA)
	24 hour capacity <sup>1</sup> .....	do	10	10	9

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding. These data exclude all flour blended by macaroni and spaghetti manufacturers, etc., as such are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies.

(NA) Not available.

<sup>1</sup>Revised by 5 percent or more from previously published figures.

<sup>1</sup>Collected quarterly.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

(1,000 cwt.)

Geographic area	Wheat ground for flour			Wheat ground for flour		
	January 1977 (Quantity consumed)	December 1976 (Quantity consumed)	January 1976 (Quantity consumed)	January 1977 (Quantity produced)	December 1976 (Quantity produced)	January 1976 (Quantity produced)
United States, total....	48,569	46,931	47,204	21,467	20,804	21,034
Middle Atlantic.....	5,264	6,026	5,741	2,352	2,704	2,530
New York.....	4,274	4,952	4,725	1,923	2,234	2,097
North Central.....	27,967	26,216	26,367	12,389	11,639	11,692
Ohio.....	2,837	2,869	3,015	1,235	1,242	1,315
Indiana.....	1,236	1,263	1,361	520	529	571
Illinois.....	2,963	2,791	2,689	1,297	1,224	1,187
Michigan.....	684	744	742	296	324	325
Minnesota.....	5,966	5,724	5,835	2,730	2,626	2,620
Iowa.....	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	4,675	4,315	4,184	2,081	1,912	1,874
Nebraska.....	1,582	1,568	1,426	667	671	603
Kansas.....	6,147	5,164	5,316	2,737	2,322	2,406
South Atlantic.....	2,452	2,318	2,527	1,038	<sup>r</sup> 983	1,153
East South Central.....	2,457	2,701	2,498	1,048	1,150	1,149
Tennessee.....	1,916	2,052	2,006	817	871	879
West South Central.....	3,260	2,796	2,749	1,422	1,229	1,222
Oklahoma.....	1,486	1,274	1,223	677	578	(D)
Texas.....	1,576	1,320	1,298	653	<sup>r</sup> 558	560
Mountain.....	2,856	2,793	3,125	1,263	1,234	1,382
Montana.....	667	644	597	307	292	269
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)
Pacific.....	4,313	4,081	4,197	1,955	1,865	1,906
Washington.....	1,448	1,241	1,378	645	559	620
Oregon.....	836	749	890	364	334	403
California and Hawaii.....	2,029	2,091	1,929	946	972	883

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

<sup>1</sup>Revised by 5 percent or more from previously published figures.



TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	December 1976	November 1976	12 months through December 1976
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	239	125	1,908
Guatemala.....	-	-	46
Colombia.....	7	22	124
Ecuador.....	-	3	13
Brazil.....	8	-	32
Israel.....	35	12	170
India.....	-	-	225
Pakistan.....	-	-	-
Sri Lanka (Ceylon).....	11	-	113
Philippine Republic.....	3	-	157
Morocco.....	28	39	554
Other.....	147	49	474
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	187	445	13,755
Nicaragua.....	-	1	18
Jamaica.....	13	21	163
Brazil.....	-	-	70
Iceland.....	4	12	101
Jordan.....	-	-	97
Saudi Arabia.....	83	241	4,718
Sri Lanka (Ceylon).....	-	-	2,198
Egypt.....	-	-	4,992
Philippine Republic.....	-	-	4
Korean Republic.....	-	-	20
Morocco.....	-	-	27
Other.....	87	170	1,347

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

- Represents zero.

## DESCRIPTION OF SURVEY

**Scope of Survey**—This survey includes firms engaged in the production of wheat and rye flour. The reporting panel consists of mills with a daily capacity of over 400 sacks of flour.

**Sampling Description**—The data shown in this publication were collected on Bureau of the Census monthly Form M-20A, Flour Milling Products. The aggregates published in this report have been compiled from a sample of approximately 250 respondents accounting for 98 percent of the total U.S. production of flour mill products. The universe for this sample was the 1958 Census of Manufactures. Approximately 200 small establishments are in the nonmail universe. Their production data are estimated based upon their 1958 Census of Manufactures report. The monthly reporting panel was selected by arraying the reporting units in descending order by size for each product line, then choosing a sufficient number of respondents (beginning with the largest) to yield a coverage of approximately 98 percent for each product line.

**Survey Error**—The current month's figures include estimates for respondents in the reporting panel whose reports were not received in time for tabulation, as well as for 200 small respondents excluded from the mail panel. Missing figures for companies in the reporting panel are imputed from the month-to-month movements shown by reporting firms. The overall imputation rate is generally limited to 12 percent, including about 2 percent for small respondents excluded from the monthly reporting panel. Individual items with a higher than 12-percent imputation rate are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, both because the actual monthly movements for nonrespondents may or may not closely agree with the imputed movements, and because the estimates for nonpanel cases may reflect their current activity. The probable difference between the actual and imputed figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of imputation increases. Figures with imputation rates above 12 percent, particularly, should be used with caution.

**Revision to Previous Period Data**—Statistics for previous months may be revised due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

**Reporting Period Adjustment**—Beginning January 1975, the data were adjusted for the number of working days in the reporting period to compensate for differences in individual company reporting patterns, i.e., calendar month, 4-week, 5-week periods.

**Seasonal Adjustment**—This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The data were seasonally adjusted using the X-11 variant of the Bureau of the Census method II seasonal adjustment program. This seasonal adjustment program is a ratio-to-moving average method. The seasonal adjustment program largely eliminates the effect of seasonal variations (intra-year variations repeated constantly from year to year) within the series. The seasonally adjusted data usually provide a better measure than the not seasonally adjusted (original) data of the month-to-month variations which are due to factors other than seasonal pattern.

## EXPLANATION OF TERMS

**Units of Quantity**—Grain ground is measured in bushels of 60 pounds for wheat, 56 pounds for rye. Flour production is measured in sacks of 100 pounds.

**Capacity**—Based on replies to the question "What is the maximum quantity of flour that can be produced in your mill in one day if operated for 24 hours?" The capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

**Grain**—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

**Millfeed**—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

**Wheat flour**—Includes whole wheat flour, farina, industrial flour, and durum flour.

**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.

## RELATED REPORTS

An annual current industrial report is published in this series. The annual report summarizes monthly figures and incorporates all known revisions in the series for both current and previous year, thus providing a single reference copy to replace the monthly publications. This annual summary provides additional information on the history of this survey.

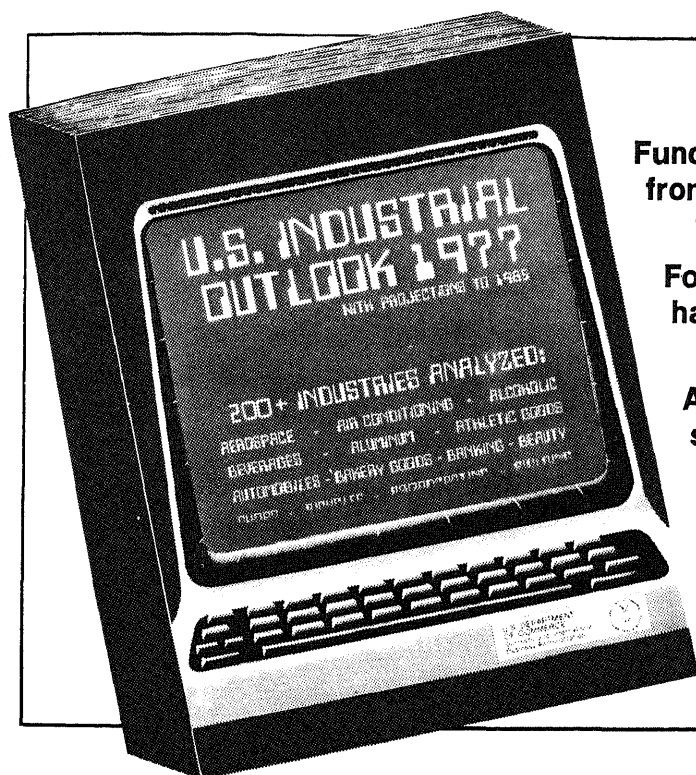
The Bureau of the census also publishes reports on other related products as follows:

Series	Frequency	Title
<i>Current Industrial Reports</i>		
M3-1	Monthly	Manufacturers' Shipments, Inventories, and Orders
M20C	Monthly	Confectionery, Including Chocolate Products
<i>Foreign Trade Reports</i>		
FT-410	Monthly	U.S. Exports—Schedule B—Commodity by Country
FT-135	Monthly	U.S. General Imports—Schedule A—Commodity by Country

## CONTACTS FOR DATA USERS

Subject Area	Contact	Phone Number
Current Industrial Report M20A	Thomas Flood	(301) 763-2415
Foreign Trade publications	Paul Finn	(301) 763-5140
Bureau of Domestic Commerce	Rita Bacon	(202) 377-3813
To order a Census publication	Dorothy Dunham	(301) 763-7472
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## Flour Milling Products

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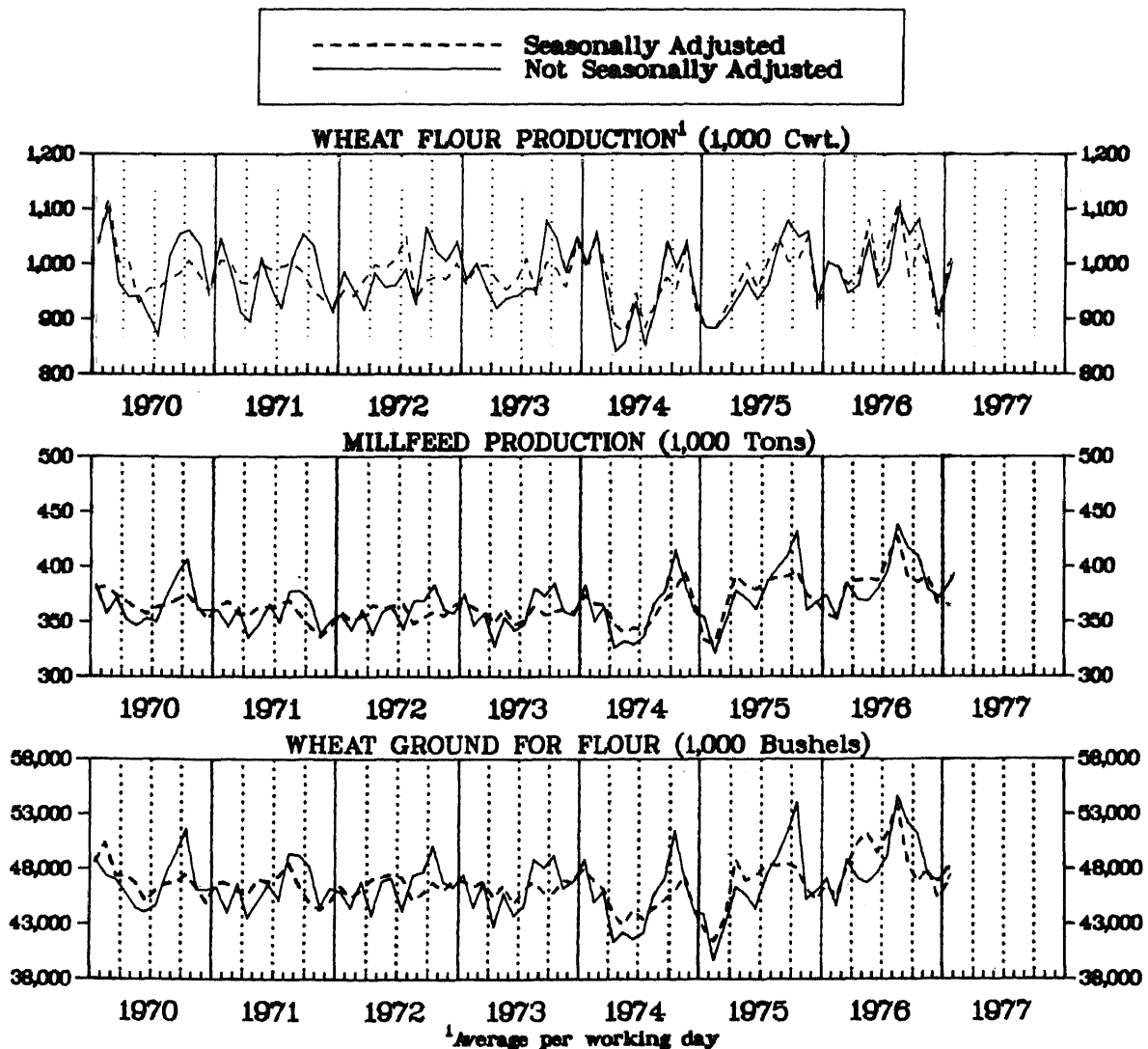
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BUREAU OF THE CENSUS

Issued April 1977  
M20A(77)-2

The statistics in this publication are based on a survey of manufacturers and represent total U.S. production of flour milling products. Estimates are included for companies whose reports were not received in time for tabulation. A more com-

plete description of this survey appears on page 6. An annual current industrial report is published in this series and includes all the months for the current and previous years and incorporates all known revisions in the series.

### WHEAT FLOUR MILLING: 1970 TO 1977



Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Thomas Flood, (301) 763-2415.

For sale by the Subscriber Services Section (Publications), Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price 25 cents per copy, \$3.30 per year.

TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1975 TO 1977

(Seasonally adjusted)

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1977			
February.....	1,074	388	48,856
January.....	1,017	363	47,465
1976			
December.....	885	370	45,697
November.....	990	391	48,063
October.....	1,035	386	46,773
September.....	977	389	48,536
August.....	1,119	427	53,879
July.....	1,035	407	51,218
June.....	978	387	49,476
May.....	1,080	389	51,287
April.....	983	387	50,311
March.....	963	387	48,266
February.....	996	353	45,354
January.....	1,004	356	46,644
1975			
December.....	915	367	45,198
November.....	1,049	375	46,207
October.....	1,006	396	48,112
September.....	1,005	391	48,506
August.....	1,048	390	48,306
July.....	1,004	387	48,429
June.....	954	379	47,374
May.....	1,001	382	46,985
April.....	957	392	48,866
March.....	923	362	43,532
February.....	884	329	41,433
January.....	884	333	42,638

Note: Data include from 2- to 5-percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in the April 1976 publication.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays; January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1975 TO 1977

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup> (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1977								
February.....	1,073	21,469	386,182	48,123	(NA)	990	109.1	74.4
January.....	1,015	21,320	380,273	48,035	(NA)	990	102.5	74.0
1976								
December.....	905	20,804	372,844	46,931	4,334	990	91.4	73.9
November.....	1,001	21,031	379,784	47,486	(NA)	998	100.3	73.8
October.....	1,082	22,723	410,072	51,216	(NA)	998	108.4	73.9
September.....	1,053	23,178	417,142	52,225	3,621	998	105.5	73.4
August.....	1,103	24,257	437,548	54,634	(NA)	990	111.4	74.0
July.....	989	21,751	395,596	49,272	(NA)	990	100.1	73.6
June.....	957	21,059	378,582	47,645	3,923	990	96.7	73.7
May.....	1,044	20,871	369,318	46,758	(NA)	997	104.7	74.4
April.....	960	21,113	369,972	47,192	(NA)	997	96.3	74.5
March.....	947	21,771	384,578	48,845	4,510	997	94.9	74.3
February.....	995	19,891	351,557	44,674	(NA)	991	100.4	74.2
January.....	1,002	21,034	373,719	47,204	(NA)	991	101.1	74.3
1975								
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September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
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June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0
March.....	907	19,054	349,068	42,833	4,755	959	94.6	74.1
February.....	883	17,653	320,553	39,746	(NA)	967	91.2	74.0
January.....	885	19,466	354,360	43,927	(NA)	967	91.5	73.9

Note: Data included estimates for small mills

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.<sup>2</sup>Collected quarterly.<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

Product code	Description of item	Unit of measure	February 1977 (Quantity)	January 1977 (Quantity)	February 1976 (Quantity)
0011173	Durum wheat (included in table 1 data):				
2041153	Durum wheat ground.....	M bu	3,126	3,278	3,318
2041155	Straight semolina durum flour.....	M cwt	1,383	1,466	1,456
	Blended semolina durum flour.	do	(D)	(D)	(D)
0011951	Rye:				
2041611	Rye ground for flour.....	M bu	302	305	308
2041611	Rye flour production.....	M cwt	130	140	142
2041618	Rye millfeed production.....	tons	1,410	1,751	1,645
2041611	Rye flour stocks <sup>1</sup> .....	M cwt	(NA)	(NA)	(NA)
	24 hour capacity <sup>1</sup> .....	do	10	10	9

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding. These data exclude all flour blended by macaroni and spaghetti manufacturers, etc., as such are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies.

(NA) Not available.

<sup>1</sup>Revised by 5 percent or more from previously published figures.

<sup>1</sup>Collected quarterly.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

(1,000 cwt.)

Geographic area	Wheat ground for flour			Wheat ground for flour		
	February 1977 (Quantity consumed)	January 1977 (Quantity consumed)	February 1976 (Quantity consumed)	February 1977 (Quantity produced)	January 1977 (Quantity produced)	February 1976 (Quantity produced)
United States, total....	48,123	21,469	48,035	21,320	44,674	19,891
Middle Atlantic.....	5,523	2,488	5,218	2,334	5,571	2,467
New York.....	4,489	2,038	4,228	1,905	4,660	2,072
North Central.....	27,376	12,232	27,454	12,214	25,447	11,260
Ohio.....	2,515	1,081	<sup>1</sup> 2,629	<sup>1</sup> 1,141	2,800	1,225
Indiana.....	1,231	516	1,236	520	1,120	478
Illinois.....	3,078	1,353	2,963	1,297	2,806	1,237
Michigan.....	696	305	682	296	704	310
Minnesota.....	5,936	2,748	5,966	2,730	5,880	2,656
Iowa.....	(D)	(D)	(D)	(D)	(D)	(D)
Missouri.....	4,739	2,117	4,675	2,081	3,875	1,744
Nebraska.....	1,485	661	<sup>1</sup> 1,324	<sup>1</sup> 582	1,356	573
Kansas.....	5,789	2,607	6,102	2,741	5,225	2,300
South Atlantic.....	2,628	1,122	2,439	1,031	2,475	1,118
East South Central.....	2,516	1,073	2,457	1,048	2,456	1,125
Tennessee.....	1,933	823	1,916	817	1,986	868
West South Central.....	3,202	1,425	3,215	1,419	2,652	1,182
Oklahoma.....	1,467	666	1,486	677	1,127	(D)
Texas.....	1,497	649	1,531	650	1,331	579
Mountain.....	2,583	1,165	2,785	1,242	2,471	1,093
Montana.....	659	316	667	307	542	245
Utah.....	(D)	(D)	(D)	(D)	(D)	(D)
Pacific.....	4,295	1,964	4,467	2,032	3,602	1,646
Washington.....	1,387	623	1,448	645	1,090	490
Oregon.....	886	402	<sup>1</sup> 990	<sup>1</sup> 441	682	310
California and Hawaii.....	2,022	939	2,029	946	1,830	846

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

<sup>1</sup>Revised by 5 percent or more from previously published figures.



TABLE 4.--EXPORTS OF WHEAT FLOUR  
(1,000 cwt.)

Country to which exported	January 1977	December 1976	1 month through January 1977
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	168	239	168
Guatemala.....	26	-	26
Colombia.....	-	7	-
Ecuador.....	-	-	-
Brazil.....	-	8	-
Israel.....	10	35	10
India.....	13	-	13
Chile.....	20	-	20
Sri Lanka (Ceylon).....	20	11	20
Philippine Republic.....	-	3	-
Morocco.....	38	28	38
Other.....	41	147	41
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	1,216	187	1,216
Nicaragua.....	4	-	4
Jamaica.....	35	13	35
Brazil.....	-	-	-
Iceland.....	2	4	2
Jordan.....	63	-	63
Saudi Arabia.....	396	83	396
Sri Lanka (Ceylon).....	169	-	169
Egypt.....	360	-	360
Philippine Republic.....	11	-	11
Korean Republic.....	-	-	-
Morocco.....	-	-	-
Other.....	176	87	176

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

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M3-1	Monthly	Manufacturers' Shipments, Inventories, and Orders
M20C	Monthly	Confectionery, Including Chocolate Products
<i>Foreign Trade Reports</i>		
FT-410	Monthly	U.S. Exports—Schedule B—Commodity by Country
FT-135	Monthly	U.S. General Imports—Schedule A—Commodity by Country

## CONTACTS FOR DATA USERS

Subject Area	Contact	Phone Number
Current Industrial Report M20A	Thomas Flood	(301) 763-2415
Foreign Trade publications	Paul Finn	(301) 763-5140
Bureau of Domestic Commerce	Rita Bacon	(202) 377-3813
To order a Census publication	Dorothy Dunham	(301) 763-7472
To order microfilm of Census publications	Theresa Allen	(301) 763-5042

# UP-TO-DATE BUSINESS REPORTS



## Current Reports on Retail Trade

**\*Weekly Retail Sales**—Estimates of weekly retail sales for the United States (including totals adjusted for seasonal variations and trading day differences) for selected major kind-of-business groups, including figures for the comparable weeks in the previous year. Issued each Thursday.

**\*Advance Monthly Retail Sales**—Advance estimates of monthly retail sales for the United States (including data adjusted for seasonal variations and trading day differences) are compiled by major kind-of-business groups about 10 days after the month covered.

**\*Monthly Retail Trade Report**—Data are given for the United States, current month, with comparisons for previous months on estimates of monthly retail sales by major kind-of-business groups and selected individual kinds of business; separate figures are shown, in more limited kind-of-business detail, for firms operating 11 or more retail stores. Summary sales data are presented for geographic regions and divisions, selected metropolitan statistical areas, and cities. Also included are national estimates of end-of-month accounts receivable balances outstanding for all retail stores and, separately, for firms operating 11 or more retail stores. Separate data are shown for charge accounts and installment accounts. National sales and accounts receivable estimates are shown adjusted for seasonal variations and trading day differences, as well as in unadjusted form. This report

also includes data on department store sales published separately in Monthly Department Store Sales for Selected Areas (see below).

**\*Annual Retail Trade Report**—Estimates of annual sales and purchases, and of year-end accounts receivable, balances and inventories held by retailers in the United States by major kind-of-business groups and selected individual kinds of business. Separate figures shown in more limited kind-of-business detail for firms operating 11 or more retail stores. Also shown are sales-inventory ratios and per capita sales by kind-of-business for the United States, by major kind-of-business groups. Per capita sales estimates are also shown in limited kind-of-business detail for geographic divisions, and for the larger States and standard metropolitan statistical areas.

**Annual Subscription \$30.10**  
(Includes all retail reports listed above)

**†Monthly Department Store Sales for Selected Areas**—Monthly dollar sales volume and the percent change in sales compared with the previous month and the same month in the previous year; cumulative year-to-date comparisons with data for the previous year. The number of department stores in the current month is also shown. Data are collected in about 200 standard metropolitan statistical areas, cities, and other areas.

**Annual subscription \$3.60**

## Selected Service Trades

**†Monthly Selected Services Receipts**—This report provides estimates of monthly receipts of six major groups of service businesses: hotels, motels,

tourist courts, trailer parks, and camps; personal services; business services; automotive services; miscellaneous repair services; and motion picture, amusement, and recreation services. Also included are receipts estimates for the following more detailed kinds of business categories: hotels, tourist courts, and motels; laundries, laundry services, and cleaning and dyeing plants; beauty shops; barber shops; advertising; advertising agencies; and automobile repair shops. Comparable data for previous months and for the same month in the previous year, plus percent changes are also shown. Data are shown both unadjusted and adjusted for seasonal variations and trading day differences but not for price changes.

**Annual subscription \$3.60**

## Wholesale Trade

**\*Monthly Wholesale Trade Report**—This report includes estimated dollar sales, end-of-month inventories, and stock-sales ratios of merchant wholesalers, by kind of business for the current month, with comparisons for previous months. Dollar volume sales estimates are shown by geographic division in total and for durable and nondurable kind-of-business subtotals. Sales and inventory trends (percent changes) are shown by detailed kinds-of-business at the national level and for selected kinds-of-businesses by geographic division. Measures of sampling variability are given. United States data are shown adjusted for seasonal variations and in the case of sales, also for trading day differences.

**Annual Subscription \$7.20**

## Other Business Reports

**†Canned Food Report**—This report is issued for five dates—January 1, April 1, June 1, July 1, and November 1—to show total stocks of wholesale distributors and canners, including warehouses of retail multiunit organizations, of selected canned food items. In the January 1 report, separate data are shown for the No. 10 can size as well as for warehouse stocks of retail multiunit organizations.

**Annual subscription \$1.25**

**†Green Coffee Inventories and Roastings**—This quarterly report provides estimates of green coffee inventories held by roasters, importers, and dealers, the quantity of green coffee roasted, and the amount roasted for soluble use, by quarters, for the current and previous 3 years. Also included are quarterly imports of green coffee.

**Annual Subscription \$1.00**

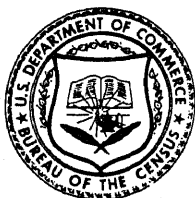
**\*Available from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402.**

**†Available from Subscriber Services Section (Publications), Bureau of the Census, Washington, D.C. 20233.**

Publications Order Forms furnishing additional information of the various reports listed here are available free of charge from the Subscriber Services Section (Publications), Bureau of the Census, Washington, D.C. 20233

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# Flour Milling Products



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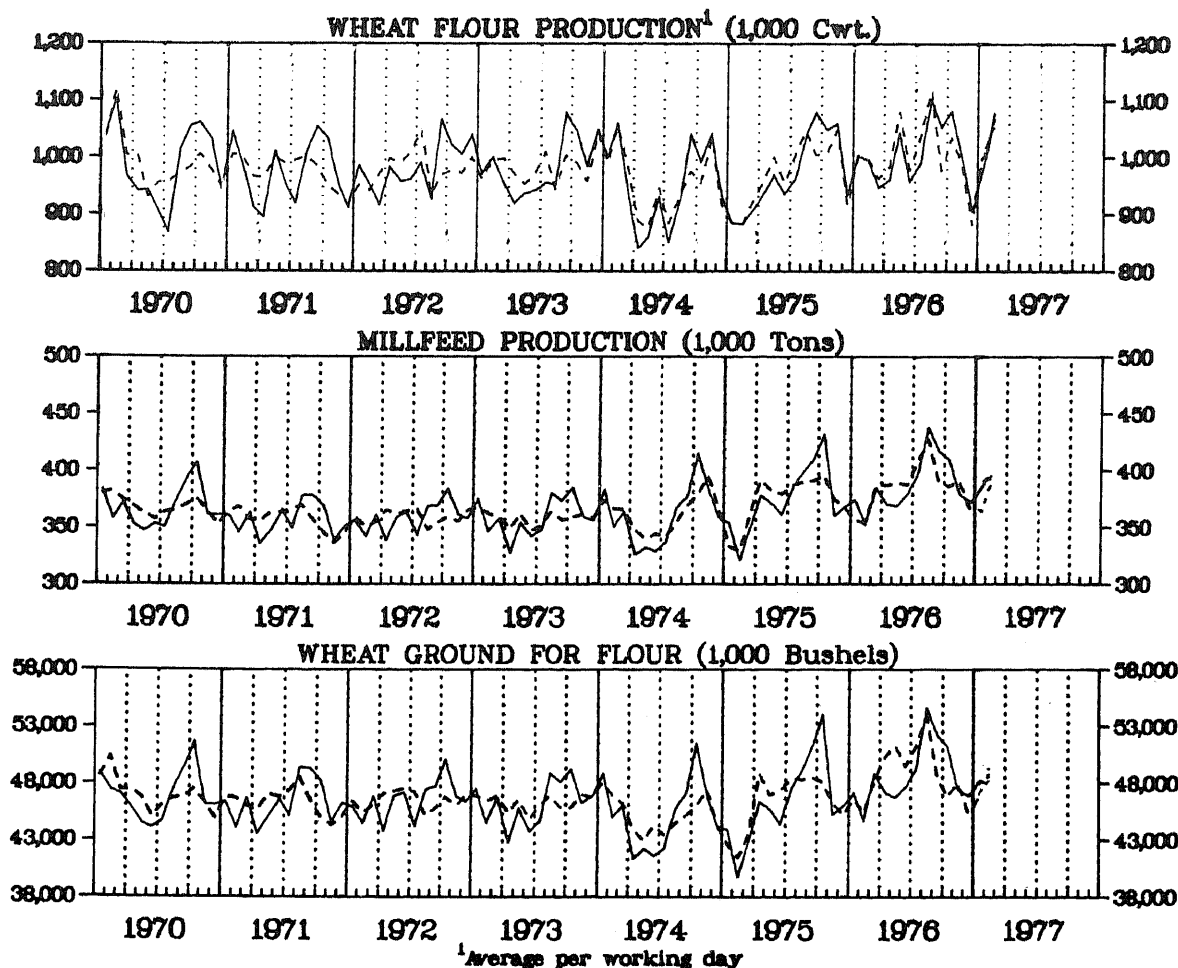
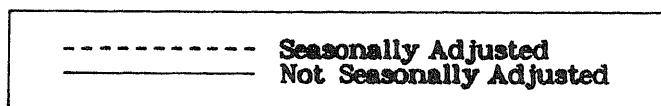
MARCH 1977

Issued April 1977  
M20A(77)-3

The statistics in this publication are based on a survey of manufacturers and represent total U.S. production of flour milling products. Estimates are included for companies whose reports were not received in time for tabulation. A more com-

plete description of this survey appears on page 5. An annual current industrial report is published in this series and includes all the months for the current and previous years and incorporates all known revisions in the series.

## WHEAT FLOUR MILLING: 1970 TO 1977



Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Thomas Flood, (301) 763-2415.

For sale by the Subscriber Services Section (Publications), Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price 25 cents per copy, \$3.30 per year.

TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1975 TO 1977

(Seasonally adjusted)

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1977			
March.....	1,075	432	53,802
February.....	1,072	387	48,754
January.....	1,017	363	47,465
1976			
December.....	885	370	45,697
November.....	990	391	48,063
October.....	1,035	386	46,773
September.....	977	389	48,536
August.....	1,119	427	53,879
July.....	1,035	407	51,218
June.....	978	387	49,476
May.....	1,080	389	51,287
April.....	983	387	50,311
March.....	963	387	48,266
February.....	996	353	45,354
January.....	1,004	356	46,644
1975			
December.....	915	367	45,198
November.....	1,049	375	46,207
October.....	1,006	396	48,112
September.....	1,005	391	48,506
August.....	1,048	390	48,306
July.....	1,004	387	48,429
June.....	954	379	47,374
May.....	1,001	382	46,985
April.....	957	392	48,866
March.....	923	362	43,532
February.....	884	329	41,433

Note: Data include from 2- to 5-percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in the April 1976 publication.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays; January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1975 TO 1977

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1977								
March.....	1,057	24,322	429,727	54,448	4,248	976	108.3	74.5
February.....	1,071	21,425	385,212	48,023	(NA)	990	108.2	74.4
January.....	1,015	21,320	380,273	48,035	(NA)	990	102.5	74.0
1976								
December.....	905	20,804	372,844	46,931	4,334	990	91.4	73.9
November.....	1,001	21,031	379,784	47,486	(NA)	998	100.3	73.8
October.....	1,082	22,723	410,072	51,216	(NA)	998	108.4	73.9
September.....	1,053	23,178	417,142	52,225	3,621	998	105.5	73.4
August.....	1,103	24,257	437,548	54,634	(NA)	990	111.4	74.0
July.....	989	21,751	395,596	49,272	(NA)	990	100.1	73.6
June.....	957	21,059	378,582	47,645	3,923	990	96.7	73.7
May.....	1,044	20,871	369,318	46,758	(NA)	997	104.7	74.4
April.....	960	21,113	369,972	47,192	(NA)	997	96.3	74.5
March.....	947	21,771	384,578	48,845	4,510	997	94.9	74.3
February.....	995	19,891	351,557	44,674	(NA)	991	100.4	74.2
January.....	1,002	21,034	373,719	47,204	(NA)	991	101.1	74.3
1975								
December.....	933	20,532	368,047	46,000	3,907	991	94.1	74.4
November.....	1,059	20,113	359,798	45,241	(NA)	995	106.9	74.0
October.....	1,049	24,129	432,009	54,067	(NA)	995	105.4	74.4
September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
August.....	1,034	21,705	398,052	49,017	(NA)	988	104.7	73.8
July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0
March.....	907	19,054	349,068	42,833	4,755	959	94.6	74.1
February.....	883	17,653	320,553	39,746	(NA)	967	91.2	74.0

Note: Data included estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.

<sup>2</sup>Collected quarterly.

<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION,  
MILL STOCKS AND CAPACITY

PRODUCT CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	MARCH 1977	FEBRUARY 1977	MARCH 1976
			QUANTITY	QUANTITY	QUANTITY
	DURUM WHEAT (INCLUDED IN TABLE 1 DATA):				
0011173	DURUM WHEAT GROUND. . . . .	M BU	3,694	3,548	3,249
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	M CWT	1,688	1,511	1,409
2041155	BLENDED SEMOLINA DURUM FLOUR. . . . .	DO	(D)	(D)	(D)
	RYE:				
0011951	RYE GROUND FOR FLOUR (1). . . . .	M BU	316	302	353
2041611	RYE FLOUR PRODUCTION (2) . . . . .	M CWT	141	130	163
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	1,692	1,410	1,939
2041611	RYE FLOUR STOCKS (3). . . . .	M CWT	29	(NA)	66
	24 HOUR CAPACITY (3). . . . .	DO	10	10	9

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding. These data exclude all flour blended by macaroni and spaghetti manufacturers, etc., as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies.

(NA) Not available.

<sup>1</sup>Revised by 5 percent or more from previously published figures.

<sup>2</sup>The data for June 1976 should be revised to read "320".

<sup>3</sup>The data for June 1976 should be revised to read "150".

<sup>3</sup>Collected quarterly.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

GEOGRAPHIC AREA	MARCH 1977		FEBRUARY 1977		MARCH 1976	
	WHEAT GROUND FOR FLOUR (1,000 BUSHELS)	WHEAT FLOUR PRODUCTION (1,000 CWT.)	WHEAT GROUND FOR FLOUR (1,000 BUSHELS)	WHEAT FLOUR PRODUCTION (1,000 CWT.)	WHEAT GROUND FOR FLOUR (1,000 BUSHELS)	WHEAT FLOUR PRODUCTION (1,000 CWT.)
UNITED STATES, TOTAL. . . . .	54,448	24,322	48,023	21,425	48,845	21,771
MIDDLE ATLANTIC. . . . .	6,831	3,090	5,523	2,488	6,108	2,703
NEW YORK. . . . .	5,738	2,610	4,489	2,038	5,019	2,240
NORTH CENTRAL. . . . .	30,323	13,538	27,288	12,194	27,698	12,300
OHIO. . . . .	3,306	1,437	2,515	1,081	3,107	1,355
INDIANA. . . . .	1,551	656	1,231	516	1,421	603
ILLINOIS. . . . .	3,243	1,418	3,078	1,353	3,099	1,375
MICHIGAN. . . . .	911	400	696	305	809	358
MINNESOTA. . . . .	6,420	2,958	5,936	2,748	6,015	2,702
IOWA. . . . .	(D)	(D)	(D)	(D)	(D)	(D)
MISSOURI. . . . .	5,117	2,291	4,739	2,117	4,198	1,899
NEBRASKA. . . . .	1,489	658	1,485	661	1,666	706
KANSAS. . . . .	6,375	2,869	5,789	2,607	5,534	2,486
SOUTH ATLANTIC. . . . .	2,999	1,278	2,626	1,121	2,540	1,134
EAST SOUTH CENTRAL. . . . .	2,915	1,267	2,516	1,073	2,657	1,222
TENNESSEE. . . . .	2,237	974	1,933	823	2,118	928
WEST SOUTH CENTRAL. . . . .	3,432	1,535	3,202	1,425	28,861	1,285
OKLAHOMA. . . . .	1,597	724	1,467	666	1,384	(D)
TEXAS. . . . .	1,535	674	1,497	649	1,317	570
MOUNTAIN. . . . .	3,010	1,351	2,583	1,165	2,768	1,225
MONTANA. . . . .	784	371	659	316	594	270
UTAH. . . . .	(D)	(D)	(D)	(D)	(D)	(D)
PACIFIC. . . . .	4,938	2,263	4,285	1,959	4,190	1,902
WASHINGTON. . . . .	1,646	743	1,387	623	1,292	581
OREGON. . . . .	1,004	451	876	397	783	346
CALIFORNIA AND HAWAII. . . . .	2,288	1,069	2,022	939	2,115	975

Note: Detail may not add to total due to independent rounding.

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TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	February 1977	January 1977	2 months through February 1977
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	209	168	378
Guatemala.....	3	26	29
Colombia.....	21	-	21
Ecuador.....	1	-	1
Brazil.....	5	-	5
Israel.....	-	10	10
India.....	1	13	14
Chile.....	38	20	57
Sri Lanka (Ceylon).....	-	20	20
Philippine Republic.....	-	-	-
Morocco.....	-	38	38
Other.....	140	41	183
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	2,333	1,216	3,549
Nicaragua.....	1	4	5
Jamaica.....	15	35	50
Brazil.....	-	-	-
Iceland.....	5	2	7
Jordan.....	-	63	63
Saudi Arabia.....	319	396	715
Sri Lanka.(Ceylon).....	628	169	797
Egypt.....	1,296	360	1,656
Philippine Republic.....	-	11	11
Korean Republic.....	-	-	-
Morocco.....	-	-	-
Other.....	69	176	245

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

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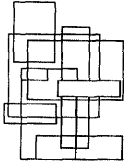
The Bureau of the census also publishes reports on other related products as follows:

Series	Frequency	Title
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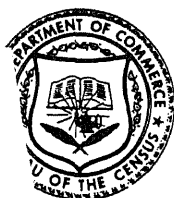
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# Flour Milling Products



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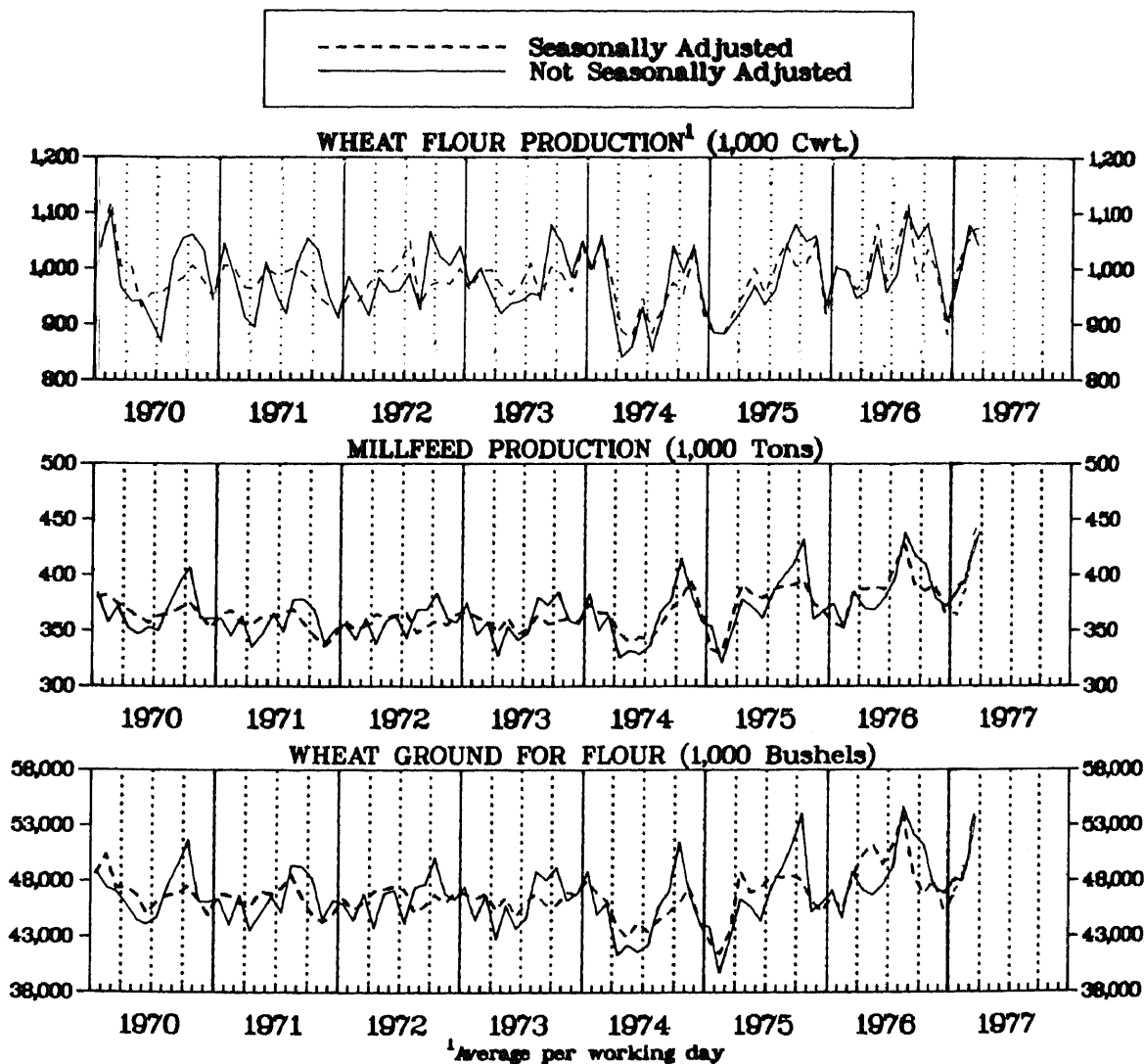
APRIL 1977

M20A(77)-4  
Issued May 1977

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## WHEAT FLOUR MILLING: 1970 TO 1977



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TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1975 TO 1977

(Seasonally adjusted)			
Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat ground for flour (1,000 bushels)
1977			
April.....	1,005	387	49,448
March.....	1,075	433	53,789
February.....	1,072	387	48,754
January.....	1,017	363	47,465
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December.....	885	370	45,697
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November.....	1,049	375	46,207
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September.....	1,005	391	48,506
August.....	1,048	390	48,306
July.....	1,004	387	48,429
June.....	954	379	47,374
May.....	1,001	382	46,985
April.....	957	392	48,866

Note: Data include from 2- to 5-percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in the April 1976 publication.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays; January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1975 TO 1977

(Not seasonally adjusted)								
Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1977								
April.....	982	20,612	369,719	46,382	(NA)	976	100.6	74.1
March.....	1,057	24,321	430,120	54,434	4,248	976	108.3	74.5
February.....	1,071	21,425	385,212	48,023	(NA)	990	108.2	74.4
January.....	1,015	21,320	380,273	48,035	(NA)	990	102.5	74.0
1976								
December.....	905	20,804	372,844	46,931	4,334	990	91.4	73.9
November.....	1,001	21,031	379,784	47,486	(NA)	998	100.3	73.8
October.....	1,082	22,723	410,072	51,216	(NA)	998	108.4	73.9
September.....	1,053	23,178	417,142	52,225	3,621	998	105.5	73.4
August.....	1,103	24,257	437,548	54,634	(NA)	990	111.4	74.0
July.....	989	21,751	395,596	49,272	(NA)	990	100.1	73.6
June.....	957	21,059	378,582	47,645	3,923	990	96.7	73.7
May.....	1,044	20,871	369,318	46,758	(NA)	997	104.7	74.4
April.....	960	21,113	369,972	47,192	(NA)	997	96.3	74.5
March.....	947	21,771	384,578	48,845	4,510	997	94.9	74.3
February.....	995	19,891	351,557	44,674	(NA)	991	100.4	74.2
January.....	1,002	21,034	373,719	47,204	(NA)	991	101.1	74.3
1975								
December.....	933	20,532	368,047	46,000	3,907	991	94.1	74.4
November.....	1,059	20,113	359,798	45,241	(NA)	995	106.9	74.0
October.....	1,049	24,129	432,009	54,067	(NA)	995	105.4	74.4
September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
August.....	1,034	21,705	398,052	49,017	(NA)	988	104.7	73.8
July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0

Note: Data included estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.

<sup>2</sup>Collected quarterly.

<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION,  
MILL STOCKS AND CAPACITY

PRODUCT CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	APRIL 1977	MARCH 1977	APRIL 1976
			QUANTITY	QUANTITY	QUANTITY
	DURUM WHEAT (INCLUDED IN TABLE 1 DATA):				
0011173	DURUM WHEAT GROUND. . . . .	M BU	2,667	3,730	2,431
2041153	STRAIGHT SEMOLINA DURUM FLOUR . . . . .	M CWT	1,134	1,632	1,062
2041155	BLENDED SEMOLINA DURUM FLOUR. . . . .	DO	(D)	(D)	(D)
	RYE: <sup>1</sup>				
0011951	RYE GROUND FOR FLOUR . . . . .	M BU	282	316	333
2041611	RYE FLOUR PRODUCTION . . . . .	M CWT	135	141	150
2041618	RYE MILLFEED PRODUCTION . . . . .	TONS	1,413	1,690	1,820
2041611	RYE FLOUR STOCKS <sup>2</sup> . . . . .	M CWT	(NA)	29	(NA)
	24 HOUR CAPACITY <sup>2</sup> . . . . .	DO	10	10	9

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding. These data exclude all flour blended by macaroni and spaghetti manufacturers, etc., as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies.

<sup>1</sup>1976 summary figures for rye should read:

Total, rye flour production..... 1,759 m. cwt.

Total, rye ground for flour..... 3,854 m. bu.

Rye flour extraction rate..... 81.5 percent

<sup>2</sup>Collected quarterly.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

GEOGRAPHIC AREA	APRIL 1977		MARCH 1977		APRIL 1976	
	WHEAT GROUND FOR FLOUR (1,000 BUSHELS)	WHEAT FLOUR PRODUCTION (1,000 CWT.)	WHEAT GROUND FOR FLOUR (1,000 BUSHELS)	WHEAT FLOUR PRODUCTION (1,000 CWT.)	WHEAT GROUND FOR FLOUR (1,000 BUSHELS)	WHEAT FLOUR PRODUCTION (1,000 CWT.)
UNITED STATES, TOTAL. . . . .	46,382	20,612	54,434	24,321	47,192	21,113
MIDDLE ATLANTIC. . . . .	5,494	2,480	6,875	3,109	5,484	2,435
NEW YORK. . . . .	4,500	2,043	5,782	2,629	4,538	2,027
NORTH CENTRAL. . . . .	26,180	11,655	30,304	13,536	26,938	12,005
OHIO. . . . .	2,494	1,080	3,306	1,437	2,978	1,306
INDIANA. . . . .	1,328	556	1,472	626	1,186	504
ILLINOIS. . . . .	2,931	1,282	3,298	1,445	2,789	1,235
MICHIGAN. . . . .	768	336	907	398	739	328
MINNESOTA. . . . .	5,511	2,522	6,420	2,958	5,730	2,585
IOWA. . . . .	(D)	(D)	(D)	(D)	(D)	(D)
MISSOURI. . . . .	4,388	1,958	5,054	2,260	4,266	1,924
NEBRASKA. . . . .	1,274	566	1,493	660	1,467	621
KANSAS. . . . .	5,999	2,693	6,443	2,901	6,088	2,752
SOUTH ATLANTIC. . . . .	2,386	1,024	3,000	1,278	2,588	1,159
EAST SOUTH CENTRAL. . . . .	2,441	1,056	2,915	1,267	2,411	1,115
TENNESSEE. . . . .	1,866	808	2,237	974	1,918	843
WEST SOUTH CENTRAL. . . . .	2,956	1,270	3,369	1,506	3,074	1,372
OKLAHOMA. . . . .	1,437	655	1,597	724	1,499	(D)
TEXAS. . . . .	1,220	481	1,472	645	1,333	573
MOUNTAIN. . . . .	2,692	1,207	3,033	1,362	2,623	1,158
MONTANA. . . . .	633	300	784	371	590	267
UTAH. . . . .	(D)	(D)	(D)	(D)	(D)	(D)
PACIFIC. . . . .	4,233	1,920	4,938	2,263	4,074	1,869
WASHINGTON. . . . .	1,371	614	1,646	743	1,189	545
OREGON. . . . .	757	346	1,004	451	845	379
CALIFORNIA AND HAWAII. . . . .	2,105	960	2,288	1,069	2,040	945

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosure of figures for individual companies.

TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	March 1977	February 1977	3 months through March 1977
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	264	209	642
Guatemala.....	-	3	29
Colombia.....	1	21	23
Ecuador.....	-	1	1
Brazil.....	-	5	5
Israel.....	-	-	10
India.....	-	1	14
Chile.....	13	38	71
Sri Lanka (Ceylon).....	29	-	49
Philippine Republic.....	-	-	-
Morocco.....	88	-	126
Other.....	133	140	314
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	2,501	2,333	6,050
Nicaragua.....	1	1	6
Jamaica.....	52	15	102
Brazil.....	-	-	-
Iceland.....	12	5	19
Jordan.....	25	-	88
Saudi Arabia.....	245	319	961
Sri Lanka (Ceylon).....	1,033	628	1,830
Egypt.....	884	1,296	2,540
Philippine Republic.....	1	-	12
Korean Republic.....	-	-	-
Morocco.....	-	-	-
Other.....	248	69	492

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

- Represents zero.

## DESCRIPTION OF SURVEY

**Scope of Survey**—This survey includes firms engaged in the production of wheat and rye flour. The reporting panel consists of mills with a daily capacity of over 400 sacks of flour.

**Sampling Description**—The data shown in this publication were collected on Bureau of the Census monthly Form M-20A, Flour Milling Products. The aggregates published in this report have been compiled from a sample of approximately 250 respondents accounting for 98 percent of the total U.S. production of flour mill products. The universe for this sample was the 1958 Census of Manufactures. Approximately 200 small establishments are in the nonmail universe. Their production data are estimated based upon their 1958 Census of Manufactures report. The monthly reporting panel was selected by arraying the reporting units in descending order by size for each product line, then choosing a sufficient number of respondents (beginning with the largest) to yield a coverage of approximately 98 percent for each product line.

**Survey Error**—The current month's figures include estimates for respondents in the reporting panel whose reports were not received in time for tabulation, as well as for 200 small respondents excluded from the mail panel. Missing figures for companies in the reporting panel are imputed from the month-to-month movements shown by reporting firms. The overall imputation rate is generally limited to 12 percent, including about 2 percent for small respondents excluded from the monthly reporting panel. Individual items with a higher than 12-percent imputation rate are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, both because the actual monthly movements for nonrespondents may or may not closely agree with the imputed movements, and because the estimates for nonpanel cases may reflect their current activity. The probable difference between the actual and imputed figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of imputation increases. Figures with imputation rates above 12 percent, particularly, should be used with caution.

**Revision to Previous Period Data**—Statistics for previous months may be revised due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

**Reporting Period Adjustment**—Beginning January 1975, the data were adjusted for the number of working days in the reporting period to compensate for differences in individual company reporting patterns, i.e., calendar month, 4-week, 5-week periods.

**Seasonal Adjustment**—This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The data were seasonally adjusted using the X-11 variant of the Bureau of the Census method II seasonal adjustment program. This seasonal adjustment program is a ratio-to-moving average method. The seasonal adjustment program largely eliminates the effect of seasonal variations (intra-year variations repeated constantly from year to year) within the series. The seasonally adjusted data usually provide a better measure than the not seasonally adjusted (original) data of the month-to-month variations which are due to factors other than seasonal pattern.

## EXPLANATION OF TERMS

**Units of Quantity**—Grain ground is measured in bushels of 60 pounds for wheat, 56 pounds for rye. Flour production is measured in sacks of 100 pounds.

**Capacity**—Based on replies to the question "What is the maximum quantity of flour that can be produced in your mill in one day if operated for 24 hours?" The capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

**Grain**—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

**Millfeed**—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

**Wheat Flour**—Includes whole wheat flour, farina, industrial flour, and durum flour.

**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.

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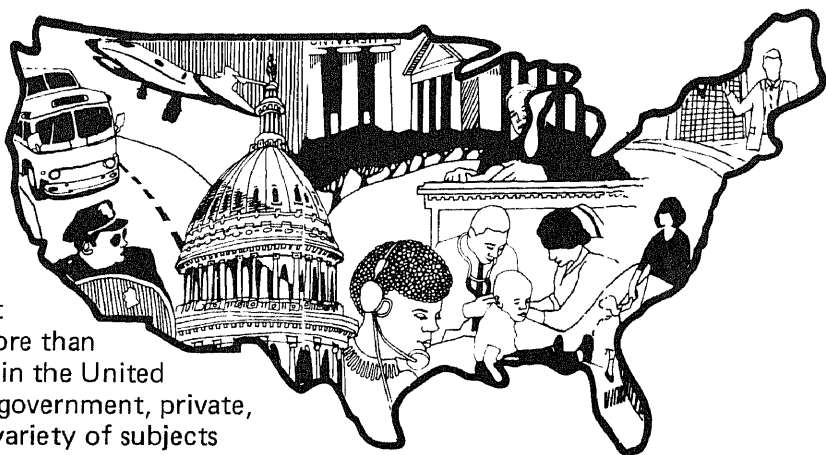
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# Flour Milling Products



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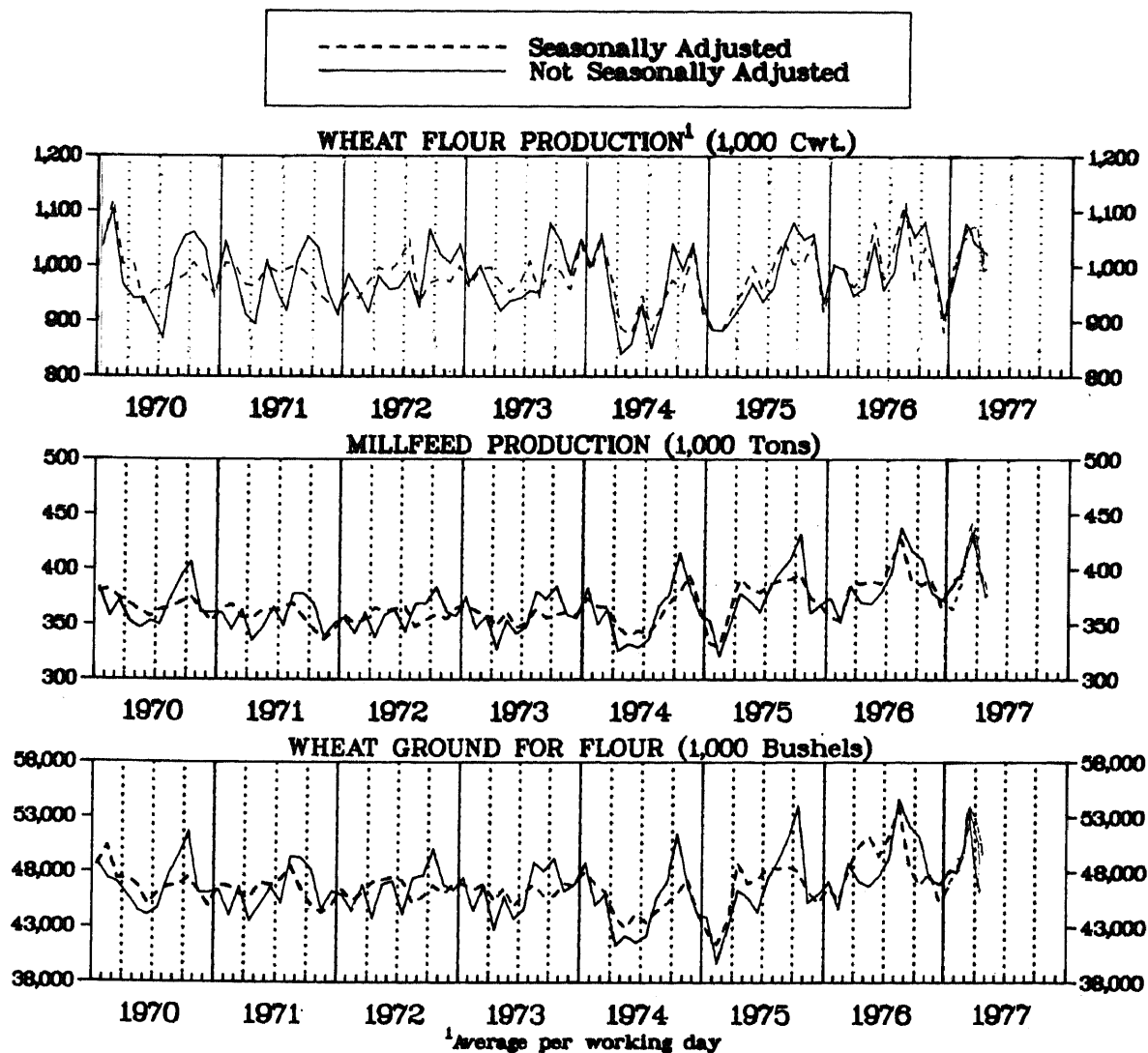
MAY 1977

M20A(77)-5  
Issued June 1977

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## WHEAT FLOUR MILLING: 1970 TO 1977



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April.....	957	392	48,866

Note: Data include from 2- to 5-percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in the April 1976 publication.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.

TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1975 TO 1977

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production  (tons)	Wheat ground for flour  (1,000 bushels)	Wheat flour mill stocks <sup>2</sup>  (1,000 cwt.)	Daily 24-hour capacity in wheat flour <sup>2</sup>  (1,000 cwt.)	Wheat flour produced as percent of capacity	Flour extraction rate <sup>1</sup>  (percent)
	Average per working day <sup>1</sup>	Calendar month total						
1977								
May.....	997	20,942	377,476	47,151	(NA)	976	102.2	74.0
April.....	982	20,632	369,798	46,402	(NA)	976	100.7	74.1
March.....	1,057	24,321	430,120	54,434	4,248	976	108.3	74.5
February.....	1,071	21,425	385,212	48,023	(NA)	990	108.2	74.4
January.....	1,015	21,320	380,273	48,035	(NA)	990	102.5	74.0
1976								
December.....	905	20,804	372,844	46,931	4,334	990	91.4	73.9
November.....	1,001	21,031	379,784	47,486	(NA)	998	100.3	73.8
October.....	1,082	22,723	410,072	51,216	(NA)	998	108.4	73.9
September.....	1,053	23,178	417,142	52,225	3,621	998	105.5	73.4
August.....	1,103	24,257	437,548	54,634	(NA)	990	111.4	74.0
July.....	989	21,751	395,596	49,272	(NA)	990	100.1	73.6
June.....	957	21,059	378,582	47,645	3,923	990	96.7	73.7
May.....	1,044	20,871	369,318	46,758	(NA)	997	104.7	74.4
April.....	960	21,113	369,972	47,192	(NA)	997	96.3	74.5
March.....	947	21,771	384,578	48,845	4,510	997	94.9	74.3
February.....	995	19,891	351,557	44,674	(NA)	991	100.4	74.2
January.....	1,002	21,034	373,719	47,204	(NA)	991	101.1	74.3
1975								
December.....	933	20,532	368,047	46,000	3,907	991	94.1	74.4
November.....	1,059	20,113	359,798	45,241	(NA)	995	106.9	74.0
October.....	1,049	24,129	432,009	54,067	(NA)	995	105.4	74.4
September.....	1,080	22,681	409,197	51,162	4,140	995	108.5	74.0
August.....	1,034	21,705	398,052	49,017	(NA)	988	104.7	73.8
July.....	962	21,156	383,995	47,430	(NA)	988	97.4	74.3
June.....	935	19,631	361,216	44,375	4,434	988	94.6	73.7
May.....	970	20,361	371,310	45,718	(NA)	959	101.1	74.2
April.....	936	20,599	377,876	46,375	(NA)	959	97.6	74.0

Note: Data included estimates for small mills.

(NA) Not available.

<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.

<sup>2</sup>Collected quarterly.

<sup>3</sup>Wheat flour production as compared with amount of wheat ground.

TABLE 2.--DURUM WHEAT AND RYE: FLOUR PRODUCTION, GRAIN CONSUMPTION, MILL STOCKS AND CAPACITY

PRODUCT CODE	DESCRIPTION OF ITEM	UNIT OF MEASURE	MAY 1977 QUANTITY	APRIL 1977 QUANTITY	MAY 1976 QUANTITY
	DURUM WHEAT (INCLUDED IN TABLE 1 DATA):				
0011173	DURUM WHEAT GROUND. . . . .	M BU	2,657	2,679	2,544
2041153	STRAIGHT SEMOLINA DURUM FLOUR. . . . .	M CWT	1,118	1,131	1,062
2041155	BLENDED SEMOLINA DURUM FLOUR. . . . .	DO	(D)	(D)	(D)
	RYE:				
0011951	RYE GROUND FOR FLOUR. . . . .	M BU	272	282	251
2041611	RYE FLOUR PRODUCTION. . . . .	M CWT	126	135	113
2041618	RYE MILLFEED PRODUCTION. . . . .	TONS	1,396	1,413	1,267
2041611	RYE FLOUR STOCKS (1). . . . .	M CWT	(NA)	(NA)	(NA)
	24 HOUR CAPACITY (1). . . . .	DO	10	10	8

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding. These data exclude all flour blended by macaroni and spaghetti manufacturers, etc., as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies. (NA) Not available.

<sup>1</sup>Collected quarterly.

TABLE 3.--WHEAT GROUND FOR FLOUR AND WHEAT FLOUR PRODUCTION BY DIVISIONS AND STATES

GEOGRAPHIC AREA	MAY 1977		APRIL 1977		MAY 1976	
	QUANTITY WHEAT GROUND FOR FLOUR (1,000 BUSHELS)	QUANTITY WHEAT FLOUR PRODUC- TION (1,000 CWT.)	QUANTITY WHEAT GROUND FOR FLOUR (1,000 BUSHELS)	QUANTITY WHEAT FLOUR PRODUC- TION (1,000 CWT.)	QUANTITY WHEAT GROUND FOR FLOUR (1,000 BUSHELS)	QUANTITY WHEAT FLOUR PRODUC- TION (1,000 CWT.)
UNITED STATES, TOTAL. . . . .	47,151	20,942	46,402	20,632	46,758	20,871
MIDDLE ATLANTIC. . . . .	6,025	2,704	5,494	2,480	6,027	2,679
NEW YORK. . . . .	4,895	2,211	4,500	2,043	4,983	2,226
NORTH CENTRAL. . . . .	25,998	11,540	26,203	11,678	26,311	11,706
OHIO. . . . .	2,708	1,169	2,494	1,080	2,207	950
INDIANA. . . . .	1,064	454	1,307	547	1,292	548
ILLINOIS. . . . .	3,238	1,414	2,913	1,279	2,865	1,275
MICHIGAN. . . . .	764	334	770	338	741	325
MINNESOTA. . . . .	5,329	2,428	5,568	2,546	5,595	2,527
IOWA. . . . .	(D)	(D)	(D)	(D)	(D)	(D)
MISSOURI. . . . .	4,415	1,960	4,388	1,958	4,424	1,989
NEBRASKA. . . . .	1,451	638	1,274	566	1,470	626
KANSAS. . . . .	5,378	2,413	6,002	2,702	6,046	2,731
SOUTH ATLANTIC. . . . .	2,780	1,188	2,392	1,030	2,525	1,162
EAST SOUTH CENTRAL. . . . .	2,573	1,119	2,441	1,056	2,518	1,103
TENNESSEE. . . . .	1,979	865	1,866	808	1,924	844
WEST SOUTH CENTRAL. . . . .	2,967	1,304	2,995	1,285	2,990	1,333
OKLAHOMA. . . . .	1,429	647	1,445	657	1,417	(D)
TEXAS. . . . .	1,284	540	1,251	494	1,361	586
MOUNTAIN. . . . .	2,615	1,173	2,688	1,205	2,570	1,139
MONTANA. . . . .	635	299	633	300	589	271
UTAH. . . . .	(D)	(D)	(D)	(D)	(D)	(D)
PACIFIC. . . . .	4,193	1,914	4,189	1,898	3,817	1,749
WASHINGTON. . . . .	1,234	560	1,371	614	1,128	515
OREGON. . . . .	724	318	713	324	714	319
CALIFORNIA AND HAWAII. . . . .	2,235	1,036	2,105	960	1,975	915

Note: Detail may not add to total due to independent rounding.  
(D) Withheld to avoid disclosing figures for individual companies.  
<sup>1</sup>Revised by 5 percent or more from previously published figures.

TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	April 1977	March 1977	4 months through April 1977
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	378	264	1,019
Guatemala.....	49	-	78
Colombia.....	-	1	23
Ecuador.....	-	-	1
Brazil.....	-	-	5
Israel.....	30	-	40
India.....	-	-	14
Chile.....	-	13	71
Sri Lanka (Ceylon).....	-	29	49
Philippine Republic.....	81	-	81
Morocco.....	110	88	236
Other.....	108	133	421
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	3,255	2,501	9,306
Nicaragua.....	6	1	12
Jamaica.....	17	52	119
Brazil.....	-	-	-
Iceland.....	4	12	23
Jordan.....	6	25	94
Saudi Arabia.....	689	245	1,650
Sri Lanka.(Ceylon).....	298	1,033	2,129
Egypt.....	2,029	884	4,568
Philippine Republic.....	-	1	12
Korean Republic.....	-	-	-
Morocco.....	-	-	-
Other.....	206	248	699

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

- Represents zero.

## DESCRIPTION OF SURVEY

**Scope of Survey**—This survey includes firms engaged in the production of wheat and rye flour. The reporting panel consists of mills with a daily capacity of over 400 sacks of flour.

**Sampling Description**—The data shown in this publication were collected on Bureau of the Census monthly Form M-20A, Flour Milling Products. The aggregates published in this report have been compiled from a sample of approximately 250 respondents accounting for 98 percent of the total U.S. production of flour mill products. The universe for this sample was the 1958 Census of Manufactures. Approximately 200 small establishments are in the nonmail universe. Their production data are estimated based upon their 1958 Census of Manufactures report. The monthly reporting panel was selected by arraying the reporting units in descending order by size for each product line, then choosing a sufficient number of respondents (beginning with the largest) to yield a coverage of approximately 98 percent for each product line.

**Survey Error**—The current month's figures include estimates for respondents in the reporting panel whose reports were not received in time for tabulation, as well as for 200 small respondents excluded from the mail panel. Missing figures for companies in the reporting panel are imputed from the month-to-month movements shown by reporting firms. The overall imputation rate is generally limited to 12 percent, including about 2 percent for small respondents excluded from the monthly reporting panel. Individual items with a higher than 12-percent imputation rate are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, both because the actual monthly movements for nonrespondents may or may not closely agree with the imputed movements, and because the estimates for nonpanel cases may reflect their current activity. The probable difference between the actual and imputed figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of imputation increases. Figures with imputation rates above 12 percent, particularly, should be used with caution.

**Revision to Previous Period Data**—Statistics for previous months may be revised due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

**Reporting Period Adjustment**—Beginning January 1975, the data were adjusted for the number of working days in the reporting period to compensate for differences in individual company reporting patterns, i.e., calendar month, 4-week, 5-week periods.

**Seasonal Adjustment**—This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The data were seasonally adjusted using the X-11 variant of the Bureau of the Census method II seasonal adjustment program. This seasonal adjustment program is a ratio-to-moving average method. The seasonal adjustment program largely eliminates the effect of seasonal variations (intra-year variations repeated constantly from year to year) within the series. The seasonally adjusted data usually provide a better measure than the not seasonally adjusted (original) data of the month-to-month variations which are due to factors other than seasonal pattern.

## EXPLANATION OF TERMS

**Units of Quantity**—Grain ground is measured in bushels of 60 pounds for wheat, 56 pounds for rye. Flour production is measured in sacks of 100 pounds.

**Capacity**—Based on replies to the question "What is the maximum quantity of flour that can be produced in your mill in one day if operated for 24 hours?" The capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

**Grain**—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

**Millfeed**—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

**Wheat Flour**—Includes whole wheat flour, farina, industrial flour, and durum flour.

**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.

## RELATED REPORTS

An annual current industrial report is published in this series. The annual report summarizes monthly figures and incorporates all known revisions in the series for both current and previous year, thus providing a single reference copy to replace the monthly publications. This annual summary provides additional information on the history of this survey.

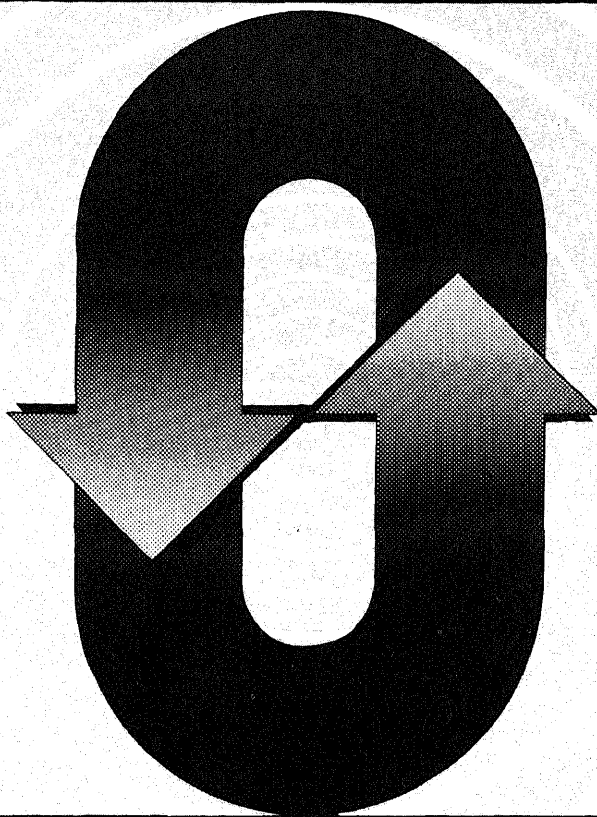
The Bureau of the census also publishes reports on other related products as follows:

Series	Frequency	Title
<i>Current Industrial Reports</i>		
M3-1	Monthly	Manufacturers' Shipments, Inventories, and Orders
M20C	Monthly	Confectionery, Including Chocolate Products
<i>Foreign Trade Reports</i>		
FT-410	Monthly	U.S. Exports—Schedule B—Commodity by Country
FT-135	Monthly	U.S. General Imports—Schedule A—Commodity by Country

## CONTACTS FOR DATA USERS

Subject Area	Contact	Phone Number
Current Industrial Report M20A	Thomas Flood	(301) 763-2415
Foreign Trade publications	Paul Finn	(301) 763-5140
Bureau of Domestic Commerce	J.D. Morrisy	(202) 377-4793
To order a Census publication	Dorothy Dunham	(301) 763-7472
To order microfilm of Census publications	Theresa Allen	(301) 763-5042

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# Flour Milling Products



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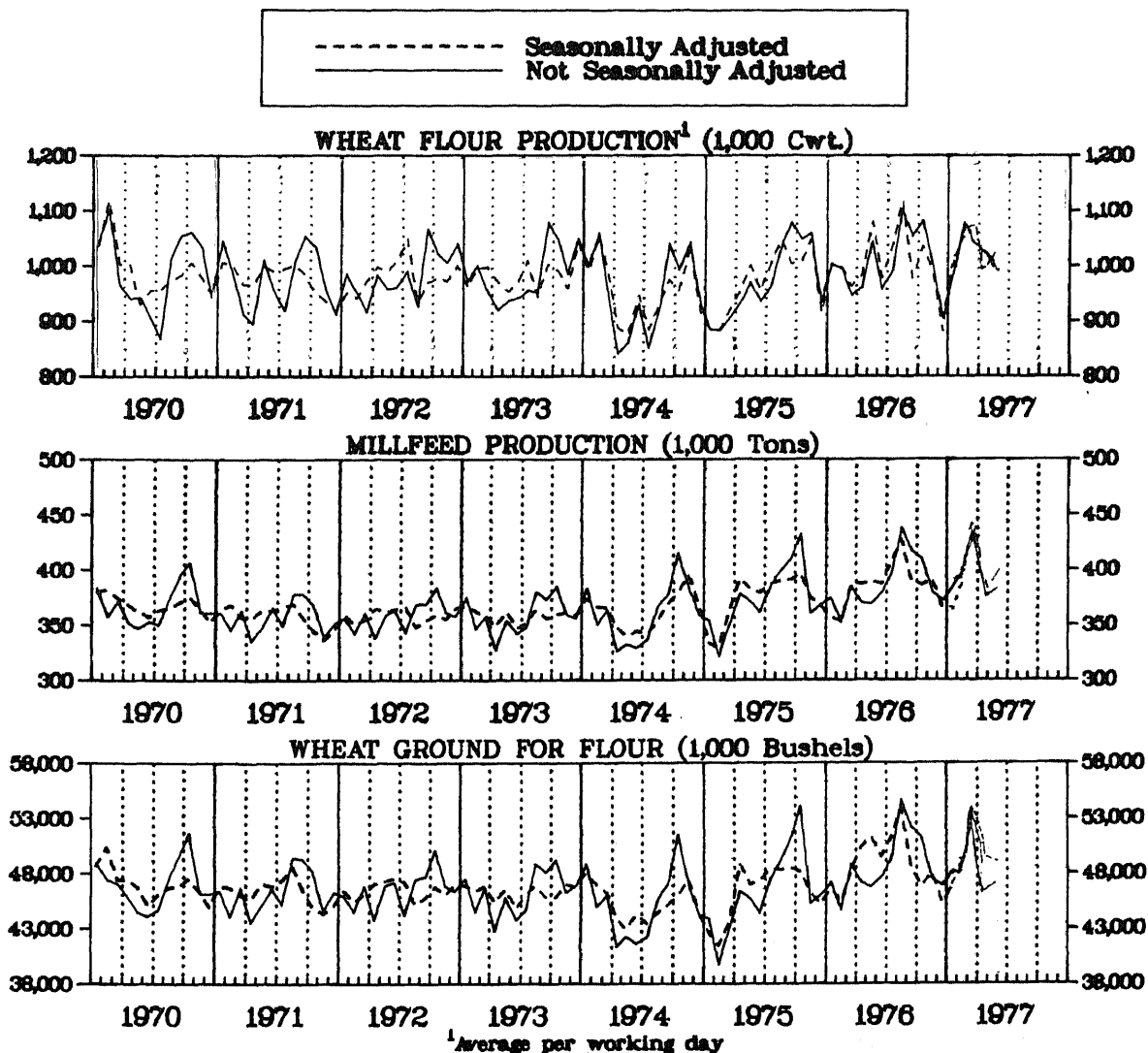
JUNE 1977

M20A(77)-6  
Issued July 1977

The statistics in this publication are based on a survey of manufacturers and represent total U.S. production of flour milling products. Estimates are included for companies whose reports were not received in time for tabulation. A more com-

plete description of this survey appears on page 5. An annual current industrial report is published in this series and includes all the months for the current and previous years and incorporates all known revisions in the series.

## WHEAT FLOUR MILLING: 1970 TO 1977



Address inquiries concerning these figures to U.S. Department of Commerce, Bureau of the Census, Industry Division, Washington, D.C. 20233, or call Thomas Flood, (301) 763-2415.

For sale by the Subscriber Services Section (Publications), Bureau of the Census, Washington, D.C. 20233, or any U.S. Department of Commerce district office. Postage stamps not acceptable; currency submitted at sender's risk. Remittances from foreign countries must be by international money order or by a draft on a U.S. bank. Price 25 cents per copy, \$3.30 per year.

TABLE 1A.--SUMMARY OF WHEAT FLOUR MILLING: 1975 TO 1977

(Seasonally adjusted)

Month and year	Wheat flour production average per working day <sup>1</sup> (1,000 cwt)	Millfeed production (1,000 tons)	Wheat flour for flour (1,000 bushels)
1977			
June.....	951	374	47,966
May.....	1,027	398	49,079
April.....	1,005	387	49,469
March.....	1,075	433	53,789
February.....	1,072	387	48,754
January.....	1,017	363	47,465
1976			
December.....	885	370	45,697
November.....	990	391	48,063
October.....	1,035	386	46,773
September.....	977	389	48,536
August.....	1,119	427	53,879
July.....	1,035	407	51,218
June.....	978	387	49,476
May.....	1,080	389	51,287
April.....	983	387	50,311
March.....	963	387	48,266
February.....	996	353	45,354
January.....	1,004	356	46,644
1975			
December.....	915	367	45,198
November.....	1,049	375	46,207
October.....	1,006	396	48,112
September.....	1,005	391	48,506
August.....	1,048	390	48,306
July.....	1,004	387	48,429
June.....	954	379	47,374
May.....	1,001	382	46,985

Note: Data include from 2- to 5-percent estimation for nonresponse. The data for 1974 and 1975 have been revised based on the new seasonal factors as shown in the April 1976 publication.

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TABLE 1B.--SUMMARY OF WHEAT FLOUR MILLING: 1975 TO 1977

(Not seasonally adjusted)

Month and year	Wheat flour production (1,000 cwt.)		Millfeed production	Wheat ground for flour	Wheat flour mill stocks <sup>2</sup>	Daily 24-hour capacity in wheat flour <sup>2</sup>	Wheat flour produced as percent of capacity	Flour extraction rate <sup>3</sup>
	Average per working day <sup>1</sup>	Calendar month total						
1977								
June.....	931	20,483	366,340	46,191	4,167	957	97.3	73.9
May.....	993	20,861	375,128	46,870	(NA)	976	101.8	74.2
April.....	982	20,632	369,798	46,402	(NA)	976	100.7	74.1
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Note: Data included estimates for small mills.

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<sup>1</sup>The number of working days per month is computed on the basis of a 5-day week with allowances for the following holidays: January 1, Memorial Day, Independence Day, Thanksgiving Day, and December 25.

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DURUM WHEAT (INCLUDED IN TABLE 1 DATA):					
0011173	DURUM WHEAT GROUND. . . . .	M BU	2,790	2,657	2,581
2041153	STRAIGHT SEMOLINA DURUM FLOUR. . . . .	M CWT	1,222	1,125	1,143
2041155	BLENDED SEMOLINA DURUM FLOUR. . . . .	DO	(D)	(D)	(D)
RYE:					
0011951	RYE GROUND FOR FLOUR. . . . .	M BU	284	272	350
2041611	RYE FLOUR PRODUCTION. . . . .	M CWT	136	126	183
2041618	RYE MILLFEED PRODUCTION. . . . .	TONS	1,442	1,396	1,933
2041611	RYE FLOUR STOCKS (1). . . . .	M CWT	21	(NA)	16
	24 HOUR CAPACITY (1). . . . .	DO	10	10	8

Note: Data include estimates for small mills. Detail may not add to total due to independent rounding. These data exclude all flour blended by macaroni and spaghetti manufacturers, etc., as such activities are not within scope of this survey. Only mills engaged in milling flour or meal are included in this survey.

(D) Withheld to avoid disclosure of figures for individual companies. (NA) Not available.

<sup>1</sup>Collected quarterly.

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GEOGRAPHIC AREA	JUNE 1977		MAY 1977		JUNE 1976	
	QUANTITY WHEAT GROUND FOR FLOUR (1,000 BUSHELS)	QUANTITY WHEAT FLOUR PRODUC- TION (1,000 CWT.)	QUANTITY WHEAT GROUND FOR FLOUR (1,000 BUSHELS)	QUANTITY WHEAT FLOUR PRODUC- TION (1,000 CWT.)	QUANTITY WHEAT GROUND FOR FLOUR (1,000 BUSHELS)	QUANTITY WHEAT FLOUR PRODUC- TION (1,000 CWT.)
UNITED STATES, TOTAL. . . . .	46,191	20,483	46,870	20,861	47,645	21,059
MIDDLE ATLANTIC. . . . .	6,100	2,733	6,014	2,702	6,153	2,731
NEW YORK. . . . .	5,119	2,305	4,895	2,211	5,131	2,287
NORTH CENTRAL. . . . .	25,297	11,190	25,773	11,450	26,661	11,772
OHIO. . . . .	2,490	1,058	2,708	1,169	2,726	1,187
INDIANA. . . . .	1,291	547	1,064	454	1,248	520
ILLINOIS. . . . .	2,975	1,295	3,053	1,338	2,964	1,295
MICHIGAN. . . . .	762	336	761	333	744	322
MINNESOTA. . . . .	5,715	2,602	5,329	2,428	5,681	2,554
IOWA. . . . .	(D)	(D)	(D)	(D)	(D)	(D)
MISSOURI. . . . .	4,200	1,866	4,415	1,960	4,304	1,923
NEBRASKA. . . . .	1,276	556	1,451	638	1,479	619
KANSAS. . . . .	5,071	2,268	5,341	2,400	5,846	2,621
SOUTH ATLANTIC. . . . .	2,683	1,137	2,781	1,189	2,447	1,066
EAST SOUTH CENTRAL. . . . .	2,601	1,123	2,573	1,119	2,591	1,127
TENNESSEE. . . . .	2,082	902	1,979	865	1,987	866
WEST SOUTH CENTRAL. . . . .	3,022	1,351	2,944	1,325	3,161	1,395
OKLAHOMA. . . . .	1,358	615	1,429	647	1,502	(D)
TEXAS. . . . .	1,408	620	1,261	561	1,375	580
MOUNTAIN. . . . .	2,564	1,153	2,592	1,162	2,878	1,247
MONTANA. . . . .	610	266	612	288	616	278
UTAH. . . . .	(D)	(D)	(D)	(D)	(D)	(D)
PACIFIC. . . . .	3,924	1,796	4,193	1,914	3,754	1,721
WASHINGTON. . . . .	1,165	526	1,234	560	1,123	511
OREGON. . . . .	692	310	724	318	704	315
CALIFORNIA AND HAWAII. . . . .	2,067	960	2,235	1,036	1,927	895

Note: Detail may not add to total due to independent rounding.

(D) Withheld to avoid disclosing figures for individual companies.

<sup>1</sup>Revised by 5 percent or more from previously published figures.

TABLE 4.--EXPORTS OF WHEAT FLOUR

(1,000 cwt.)

Country to which exported	May 1977	April 1977	5 months through May 1977
WHEAT FLOUR, EXCEPT MEAL AND GROATS, DONATED FOR RELIEF OR CHARITY (0460110)			
Total.....	223	378	1,242
Egypt.....	93	37	236
Guatemala.....	-	49	78
Colombia.....	21	-	44
Ecuador.....	2	-	3
Brazil.....	-	-	5
Israel.....	7	30	47
India.....	3	-	17
Chile.....	18	-	89
Sri Lanka (Ceylon).....	-	-	49
Philippine Republic.....	24	81	105
Morocco.....	3	110	239
Other.....	52	71	330
WHEAT FLOUR, WHOLLY U.S. WHEAT, EXCEPT DURUM FLOUR AND SEMOLINA (0460120)			
Total.....	1,842	3,255	11,147
Nicaragua.....	-	6	12
Jamaica.....	2	17	121
Brazil.....	-	-	-
Iceland.....	9	4	32
Jordan.....	16	6	110
Saudi Arabia.....	337	689	1,987
Sri Lanka (Ceylon).....	207	298	2,336
Egypt.....	1,076	2,029	5,645
Philippine Republic.....	-	-	12
Korean Republic.....	-	-	-
Morocco.....	-	-	-
Other.....	195	206	892

Note: Data in this table are taken from Foreign Trade publication FT 410, U.S. Exports. The Schedule B codes are as follows: 0460110; wheat flour (except meal and groats); 0460120; wheat flour (wholly of U.S. wheat, except durum flour and semolina).

- Represents zero.

## DESCRIPTION OF SURVEY

**Scope of Survey**—This survey includes firms engaged in the production of wheat and rye flour. The reporting panel consists of mills with a daily capacity of over 400 sacks of flour.

**Sampling Description**—The data shown in this publication were collected on Bureau of the Census monthly Form M-20A, Flour Milling Products. The aggregates published in this report have been compiled from a sample of approximately 250 respondents accounting for 98 percent of the total U.S. production of flour mill products. The universe for this sample was the 1958 Census of Manufactures. Approximately 200 small establishments are in the nonmail universe. Their production data are estimated based upon their 1958 Census of Manufactures report. The monthly reporting panel was selected by arraying the reporting units in descending order by size for each product line, then choosing a sufficient number of respondents (beginning with the largest) to yield a coverage of approximately 98 percent for each product line.

**Survey Error**—The current month's figures include estimates for respondents in the reporting panel whose reports were not received in time for tabulation, as well as for 200 small respondents excluded from the mail panel. Missing figures for companies in the reporting panel are imputed from the month-to-month movements shown by reporting firms. The overall imputation rate is generally limited to 12 percent, including about 2 percent for small respondents excluded from the monthly reporting panel. Individual items with a higher than 12-percent imputation rate are footnoted.

The imputation rate is not an explicit indicator of the potential error in published figures due to nonresponse, both because the actual monthly movements for nonrespondents may or may not closely agree with the imputed movements, and because the estimates for nonpanel cases may or may not reflect their current activity. The probable difference between the actual and imputed figures is unknown. The degree of uncertainty regarding the accuracy of the data, however, increases as the percentage of imputation increases. Figures with imputation rates above 12 percent, particularly, should be used with caution.

**Revision to Previous Period Data**—Statistics for previous months may be revised due to receipt of corrected data from respondents, including late reports for which estimates were made, and other corrections. Figures which have been revised by more than 5 percent from previously published figures are indicated by footnotes.

**Reporting Period Adjustment**—Beginning January 1975, the data were adjusted for the number of working days in the reporting period to compensate for differences in individual company reporting patterns, i.e., calendar month, 4-week, 5-week periods.

**Seasonal Adjustment**—This report presents seasonally adjusted data in table 1A for selected series shown in table 1B. The data were seasonally adjusted using the X-11 variant of the Bureau of the Census method II seasonal adjustment program. This seasonal adjustment program is a ratio-to-moving average method. The seasonal adjustment program largely eliminates the effect of seasonal variations (intra-year variations repeated constantly from year to year) within the series. The seasonally adjusted data usually provide a better measure than the not seasonally adjusted (original) data of the month-to-month variations which are due to factors other than seasonal pattern.

## EXPLANATION OF TERMS

**Units of Quantity**—Grain ground is measured in bushels of 60 pounds for wheat, 56 pounds for rye. Flour production is measured in sacks of 100 pounds.

**Capacity**—Based on replies to the question "What is the maximum quantity of flour that can be produced in your mill in one day if operated for 24 hours?" The capacity of idle mills is included until the mills are reported to be destroyed, dismantled, or abandoned.

**Grain**—Represents the purchased weight of grain ground, including the weight of foreign material (dockage).

**Millfeed**—Includes bran, middlings, shorts, and other milling byproducts intended principally for use as feed materials.

**Wheat Flour**—Includes whole wheat flour, farina, industrial flour, and durum flour.

**Stocks of Flour (quarterly)**—Represents mill stocks in all positions, sold and unsold.

## RELATED REPORTS

An annual current industrial report is published in this series. The annual report summarizes monthly figures and incorporates all known revisions in the series for both current and previous year, thus providing a single reference copy to replace the monthly publications. This annual summary provides additional information on the history of this survey.

The Bureau of the census also publishes reports on other related products as follows:

Series	Frequency	Title
<i>Current Industrial Reports</i>		
M3-1	Monthly	Manufacturers' Shipments, Inventories, and Orders
M20C	Monthly	Confectionery, Including Chocolate Products
<i>Foreign Trade Reports</i>		
FT-410	Monthly	U.S. Exports—Schedule B—Commodity by Country
FT-135	Monthly	U.S. General Imports—Schedule A—Commodity by Country

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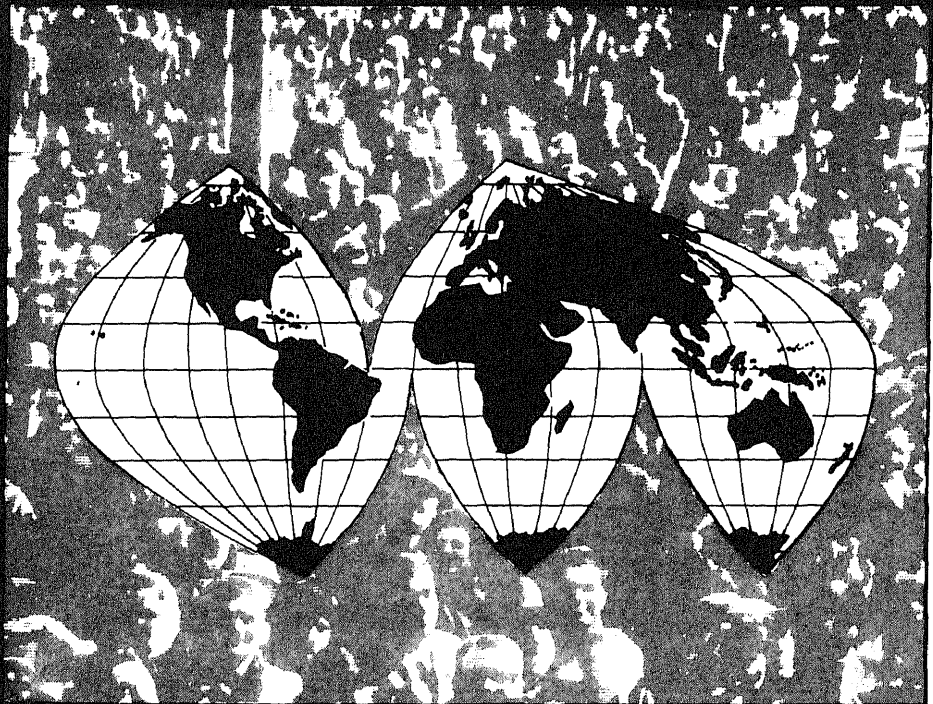
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population of each country for 1975 as well as birth and death rates and the annual rate of growth for 1974 are shown. All benchmark data and projected estimates are annotated. Also included for each country are historical population series for the years 1950 to 1975. This report was prepared under a Resources Support Services Agreement with the Office of Population, Bureau for Population and Humanitarian Assistance, U.S. Agency for International Development.

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